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CONTRACTOR AND INDUSTRIAL  
TOOL CATALOG

***Remington***

*Mall*<sup>®</sup>

**MALL TOOL COMPANY**  
**DIVISION OF REMINGTON ARMS COMPANY, INC.**  
**BRIDGEPORT 2, CONNECTICUT**



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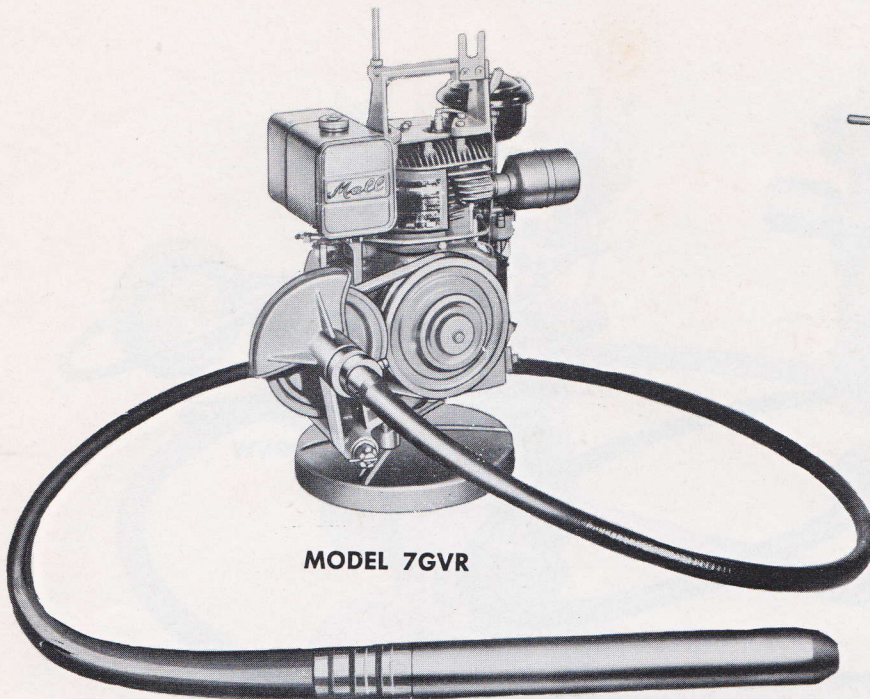
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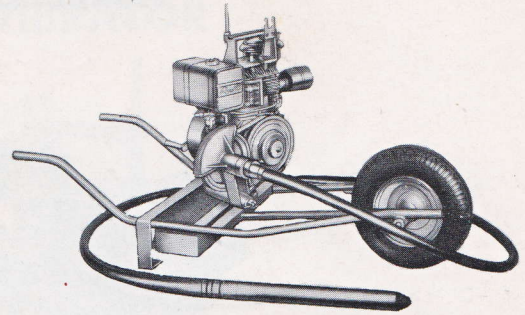
# Mall

# Remington

## MALL CONCRETE VIBRATORS



MODEL 7GVR



MODEL 7GVW

**Gasoline engine powered units with round base and wheelbarrow mounting.**  
**Places 50 cu. yds. concrete per hour at 7000 v.p.m.**

### MODEL 7GV

The MALL Vibrator driven with a heavy duty 5 H.P. air-cooled, variable speed gasoline engine with countershaft drive and automatic clutch, is designed to operate at high speeds for placing concrete, and at low speeds for concrete surfacing and rubbing.

This engine delivers speeds ranging from 2200 to 3200 r.p.m., which produces vibration frequencies from 5500 to 8000 per minute. These speeds will comply with practically all specifications for placing concrete. Changing belt hook-up on engine and countershaft pulleys provides low out-put speed of 1200 to 1800 r.p.m. for surfacing concrete and for the removal of board and fin marks by using fractional speed angle spindles—delivering speeds as low as 120 r.p.m. Shipping weight with 21 ft. shafting 280 lbs.

### Specifications

**ENGINE:** 5 H.P. air cooled, variable speed, 4 cycle gasoline engine. Countershaft drive with automatic clutch. Air and fuel cleaner, adjustable speed governor, crank starter, 1 gallon fuel tank, and 3 quart oil crankcase.

**MOUNTING:** Choice of two — Round 360° swivel base (R), or No. 6640 wheelbarrow with 16" pneumatic tire. (W).

**FLEXIBLE SHAFT:** Made of high carbon steel wire wound solid to center — ½" outer diameter. Furnished in 7 ft. and 14 ft. lengths.

**SHAFT HOUSING:** Heavy duty rubber covered with smooth internal bearing surface and wire braid reinforcing. Special heavy housing with taper flared and thickened with extra layers of rubber to provide additional strength. Smooth snag-proof surface nearest vibrator end is provided with the heavy duty 20" vibrator head. Other housings are interchangeable and both ends have standard 1 inch pipe thread ferrules.

**VIBRATOR HEADS:** MALL Hi-Kik Vibrator—2½" x 20" long. Full ball and roller bearing construction for long service. Hardened, wear-resisting steel shell and tip.

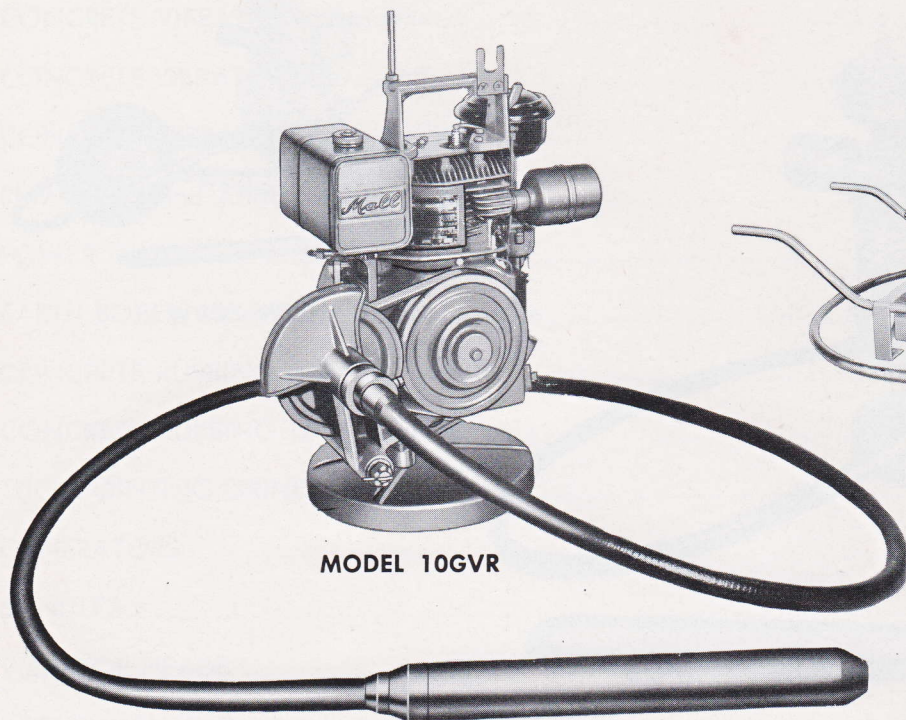
### ATTACHMENTS:

**SUMP PUMP:** Use No. 45860 Sump Pump. Additional part required No. 38380 motor adapter. After removal of engine pulley this adapter permits direct connection to engine drive shaft. Sump pump attaches to vibrator shafting. Capacity 10,500 gph at 3800 rpm.

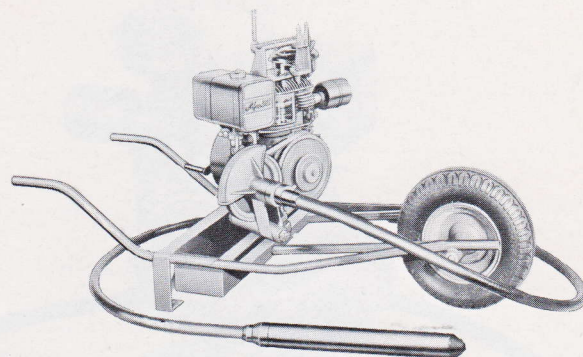
**ANGLE SPINDLES:** No. 30811B Full Speed for dry grinding; No. 31154B Quarter Speed and No. 22610B Tenth Speed for wet grinding (add 1 No. 26682 adapter housing, and 1 No. 32984A adapter shaft 3 ft. long to use these angle spindles with vibrator. Also, reduce speed by changing belt to lower pulley ratio).



## MALL CONCRETE VIBRATORS



MODEL 10GVR



MODEL 10GVW

**Gasoline engine powered units with round base and wheelbarrow mounting for High Speed Vibration at 10,000 V.P.M.**

### MODEL 10GV

Driven by a powerful heavy duty 5 H.P. air cooled, variable speed gasoline engine. This unit, by means of special V belt pulley drive, provides vibration speeds from 7500 to 10,000 v.p.m. Meets specifications for high speed vibration. Designed for fast, economical placing of low water-cement ratio concrete.

Belt change on other sheaves of engine and countershaft pulleys provide speeds of 1200 to 1800 r.p.m. for concrete rubbing and surfacing.

While the engine on this unit provides high vibration speeds, it operates at an economical 2200 to 3200 r.p.m. Shipping weight with 21 ft. shafting 280 lbs.

### Specifications:

**ENGINE:** 5 H.P. air cooled, variable speed, 4 cycle gasoline engine with automatic clutch, adjustable speed governor, air and fuel cleaner, crank starter, one gallon fuel tank, and three quart oil crankcase.

**MOUNTING:** Choice of two — Round 360° swivel base (R), or mounted No. 6640 wheelbarrow with 16 inch pneumatic tire. (W).

**FLEXIBLE SHAFTS:** Furnished in 7 ft. or 14 ft. sections with ball bearing couplings. Constructed of high carbon steel wire, each layer conversely wound over a center wire to 1/2" outer diameter.

**SHAFT HOUSING:** Steel ship-lap center wound-smooth internal bearing over which layers of wire and cotton braid are placed, embedded in a smooth, uniform outer layer of oil and wear resistant rubber. Uniform end fittings on housings permit them to be used interchangeably.

**VIBRATOR HEAD:** MALL Hi-Kik vibrator head 2 3/8" x 12" for high speed operation. Full precision ball bearing construction. Rubber tipped vibrator heads available for use where protection of forms is desired.

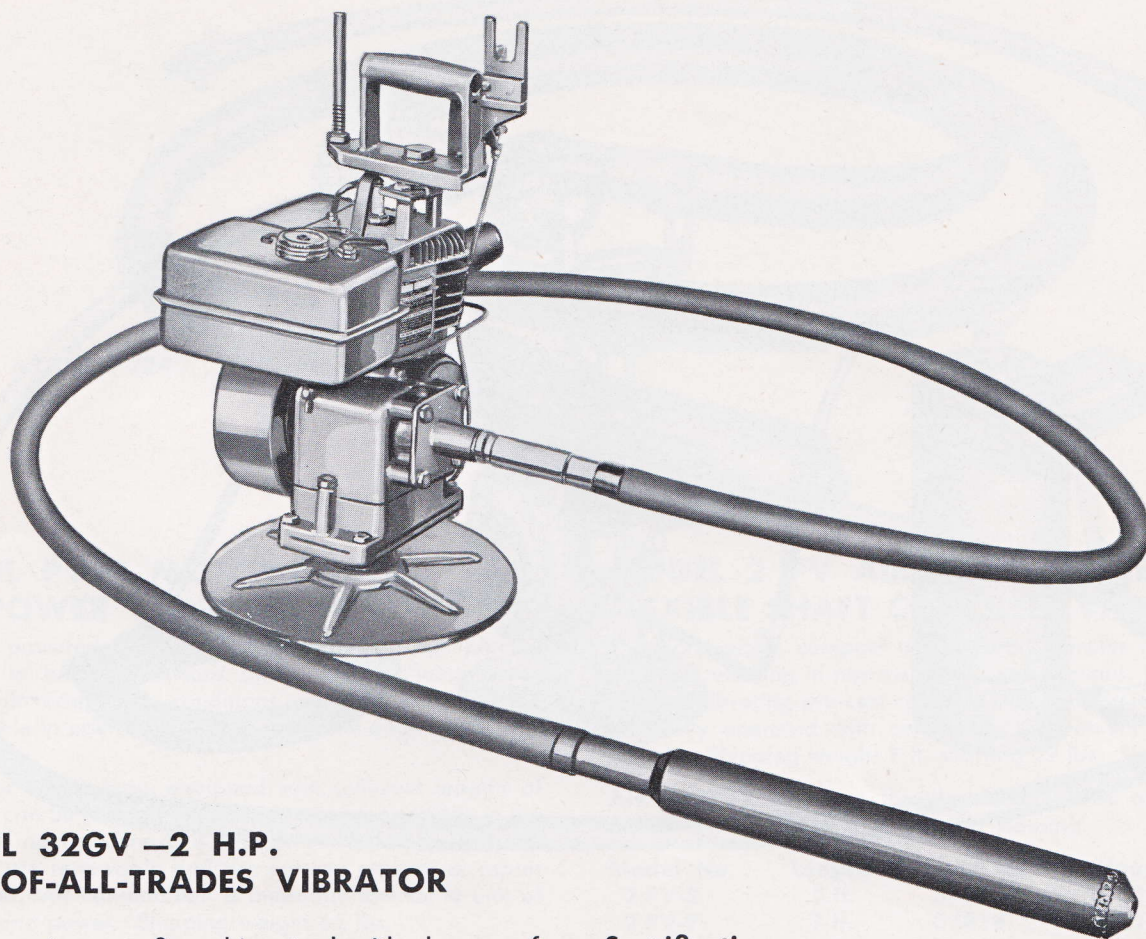
### ATTACHMENTS:

**SUMP PUMP:** Use No. 45860 Sump Pump. Additional part required No. 38380 motor adapter. After removal of engine pulley this adapter permits direct connection to engine drive shaft. Sump pump attaches to vibrator shafting. Capacity 10,500 gph at 3800 rpm.

**ANGLE SPINDLES:** No. 30811B Full Speed for dry grinding; No. 31154B Quarter Speed and No. 22610B Tenth Speed for wet rubbing or grinding (add 1 No. 36682 adapter housing 1 No. 32984A adapter shaft 3 ft. long to use angle spindle. Reduce speed by changing belt to lower speed pulley ratio).



## GASOLINE ENGINE VIBRATOR



### MODEL 32GV —2 H.P. JACK-OF-ALL-TRADES VIBRATOR

A labor-saving, profit-making tool with dozens of applications on every construction job. High power, variable speeds by throttle control and easy portability make this machine a practical investment. Use it as shown for efficient vibrating, or with attachments for surfacing, sanding, wire brushing, grinding, grouting, pumping and drilling. Powerful 2 H.P. direct drive gasoline engine is mounted on a round 360° swivel base with carrying handle and wrench attachment for greater handling ease. Entirely self-contained unit requiring no compressors or generators allowing choice of 12' or 19' lengths of shafting. Shipping weight 85 lbs. with 12 ft. shafting.

#### PARTS FOR MODEL 32GVR-12

- 32GVR** 2 H.P. engine.
- 32952B** 12 ft. flexible shaft.
- 11711** 12 ft. housing.
- 11690E** 2 1/8" x 12" vibrating head
- Additional 7 ft. lengths of shafting.
- 32952A** 7 ft. flexible shaft.
- 7320-A** 7 ft. housing.
- 17330-F** Ball bearing coupling.

#### Specifications:

**ENGINE:** 2 H.P. air-cooled 4 cycle variable speed engine, 2600 to 3600 RPM. Mounted on round 360° swivel base with carrying handle, wrench and spindle bracket.

**FLEXIBLE SHAFT:** Made of high carbon steel wire wound solid to center. Hardened 4 spline drive.

**SHAFT HOUSING:** Continuous internal bearing type for longer life. Rubber covered for greater resistance to wear. Slightly tapered at vibrator end for extra strength.

**VIBRATOR HEAD:** 2 1/8" x 14" with specially hardened shell and tip. Lifetime lubricated sealed ball bearings.

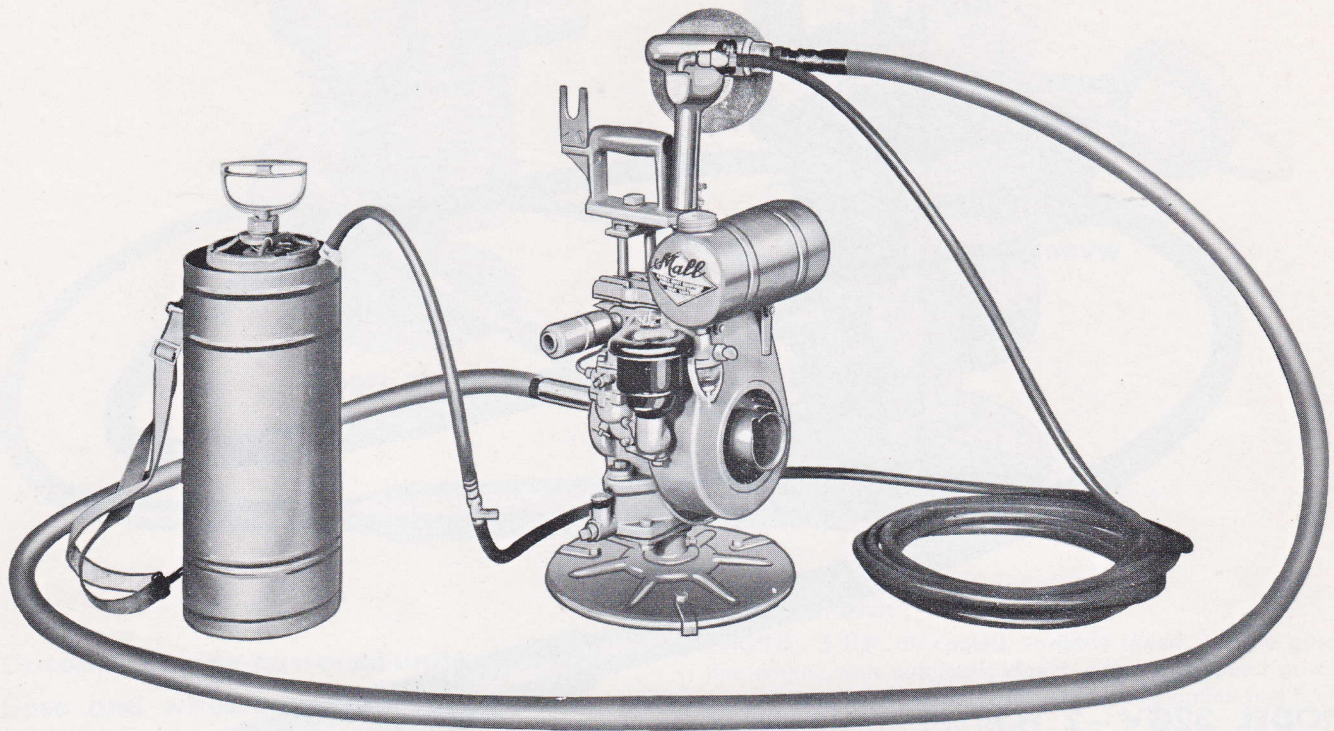
#### Equipment for Wet Rubbing

- 7320-B** 12 ft. shaft housing.
  - 7550** 2 gallon pressure type water tank with 25 ft. hose.
  - 22610-B** 1/10th speed wet angle spindle.
- (Use same flexible shaft as the concrete vibrating unit.)

#### Equipment for Sump Pumping

- 53533** Sump pump and 12 ft. hose.



**GASOLINE ENGINE CONCRETE RUBBING UNIT****MODEL 8GR — 2 H.P.**

A 2 H.P. gasoline engine concrete surfacing machine for use far from cables and electrical outlets. Ideal for use on scaffolds, viaducts, bridges — anywhere there is need for fast efficient surfacing work. It is a lightweight unit that offers greater maneuverability in tough spots. Powerful 2 H.P., air cooled, variable speed engine delivers maximum power to operator's hands. Can also be used with a variety of attachments for drilling, sanding, concrete vibrating, wire brushing, grinding and pumping. Shipping weight 95 lbs.

**Equipment for Sump Pumping**

**53533** Sump pump with 12 ft. discharge hose.

**Equipment for sanding—grinding**

**30811B** Full speed angle spindle.

**6141B** 7" rubber backing pad for sanding.

**34427** Adapter kit for depressed center flexible abrasive wheels.

**Specifications:**

**ENGINE:** 2 H.P. air-cooled, 4 cycle variable speed gasoline engine. Throttle speed control from 1200 to 3600 RPM. Anti-creep, round 360° swivel base with carrying handle, wrench and spindle bracket.

**32952-B** 12 ft. high carbon steel wire wound solid to center. 4 spline driving end of hardened alloy steel. Special shaft threading permits both vertical and horizontal operation.

**7320-B** 12 ft. rubber covered shaft housing with continuous internal bearing surface. Tough rubber covering resists abrasion and wear.

**22610-B** 1/10th speed wet angle spindle

**7550** Pressure water tank with 25 ft. hose and hand pressure pump.

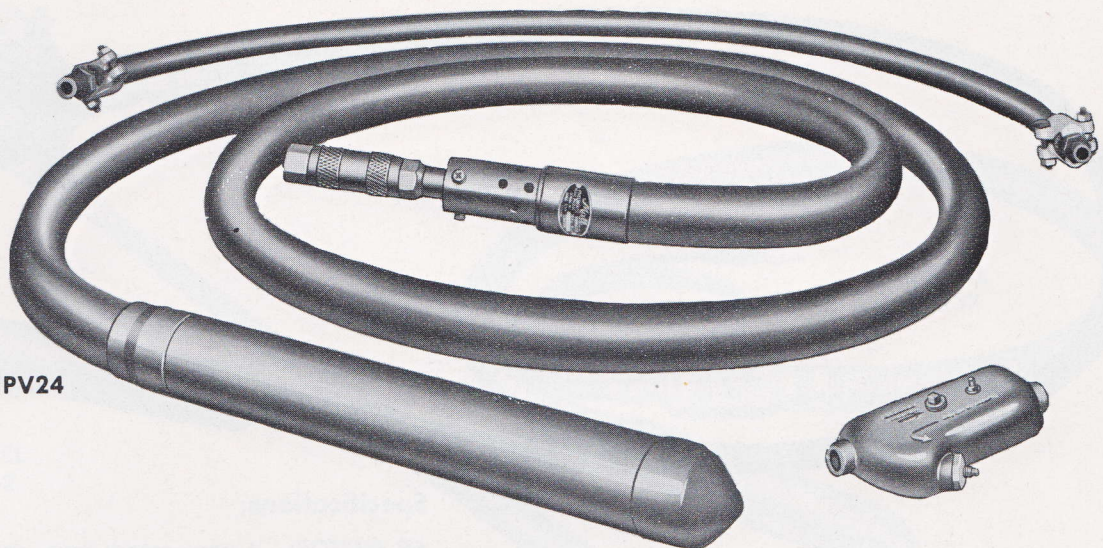
**22972** 6" x 2" cup shaped grinding wheel.



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## AIR POWER CONCRETE VIBRATOR



MODEL PV24

### MODEL PV24 MOTOR-IN-HEAD AIR POWER CONCRETE VIBRATOR

Mall air powered vibrators are widely used for placing concrete in tunnels, caissons and other confining areas where unfavorable air conditions make it dangerous or unadvisable to operate electric or gasoline engine powered units.

A vibrator of this type, equipped with sufficient lengths of air hose, can be lowered into deep, narrow openings in the forms and operated next to the point of pouring concrete. All parts are renewable and are easy to replace or repair on the job. Air consumption is unusually low for a unit of this size and power. Shipping weight 65 lbs.

#### Specifications:

**AIR MOTOR:** Operates at 11,000 rpm at 90 psi. Equipped with a convenient "twist" hand throttle, line oiler and strainer. 15 ft. of air hose is attached to vibrating head. 5 ft. of auxiliary hose is also furnished.

**VIBRATING HEAD:** In-head type motor—ball bearing construction. Tip is made of special alloy steel to withstand severe abrasive action. Head measures 2½" dia. x 19" long.

(These units recommended for concrete vibrating only.)

### MODEL 2 PV AIR POWER ONE-MAN FLEXIBLE SHAFT CONCRETE VIBRATOR

This lightweight, compact air powered vibrator is a "natural" for working in narrow forms, wall sections, in corners and for vibrating pre-cast concrete slabs and blocks. It can be easily operated with one hand. Convenient "trigger" throttle. Shipping weight 2 ft. shafting 29 lbs.

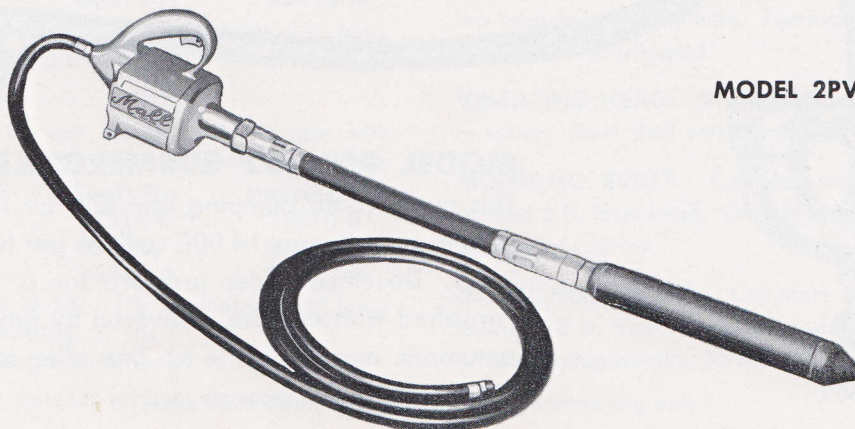
**AIR MOTOR:** Trigger throttle, 10,000 RPM at 90 psi. Sturdy lightweight aluminum alloy housing.

Model No.	Length	Shaft No.	Housing No.
2 PV-2	2 ft.	35814-B	21070-B
2 PV-7	7 ft.	35814	21070
2 PV-14	14 ft.	35814-A	21070-A

Above units furnished with Vibrating Head No. V-17, 1⅞" dia. x 12" long.

Model No.	Length	Shaft No.	Housing No.
2 PVA-2	2 ft.	35814-B	36410-B
2 PVA-7	7 ft.	35814	36410
2 PVA-14	14 ft.	35814-A	36410-A

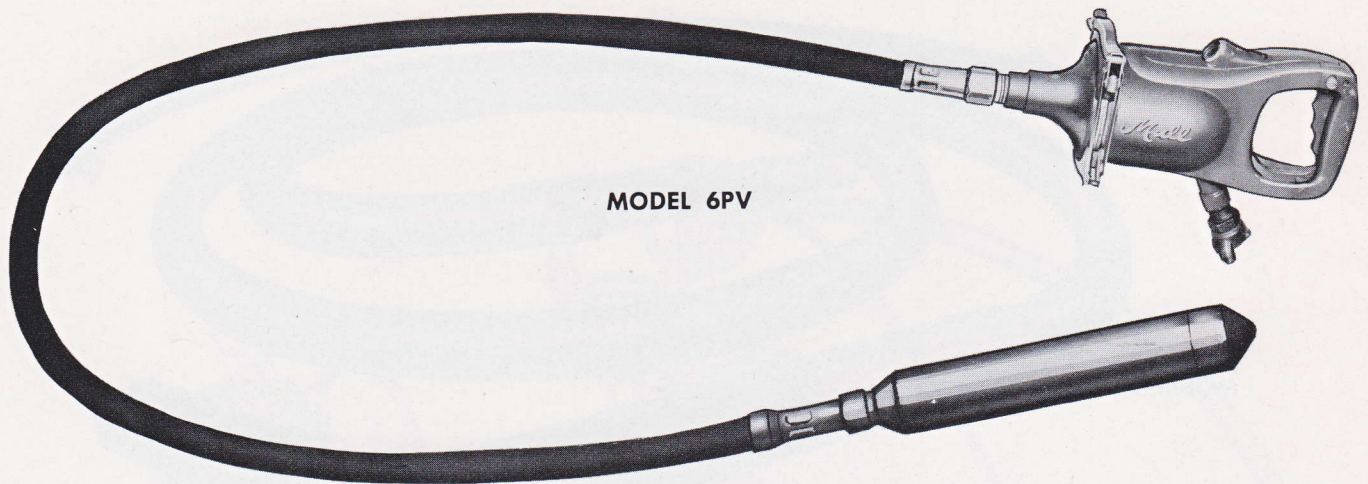
Above units furnished with Vibrating Head No. V-12, 1¼" dia. x 12" long.



MODEL 2PV



## AIR POWER CONCRETE VIBRATORS



MODEL 6PV

### MODEL 6 PV AIR POWER CONCRETE VIBRATOR

This heavy duty vibrator, is lightweight but high powered. Like other air power vibrators, it is ideally suited for placing concrete where unfavorable conditions prohibit electric or gasoline engine vibrators to be used. Operates 2 $\frac{3}{8}$ " diameter x 12" vibrator head at 10,000 rpm at 90 psi. Powerful motor also ideally suited for sump pumping. Net weight 30 lbs.

#### Specifications:

**6P MOTOR:** 4 vane rotary type, operates on precision ball bearings, and has built-in automatic oiler. 10,000 rpm at 90 psi. Has all bronze non-clogging impeller. Net weight of motor only 13 lbs.

**41710** Direct drive quick-clamp transmission

**35814** 7 ft. flexible shaft

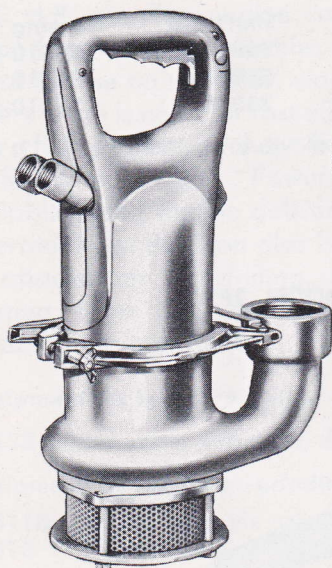
**21070** 7 ft. shaft housing

**V23** 2 $\frac{3}{8}$ " x 12" vibrating head

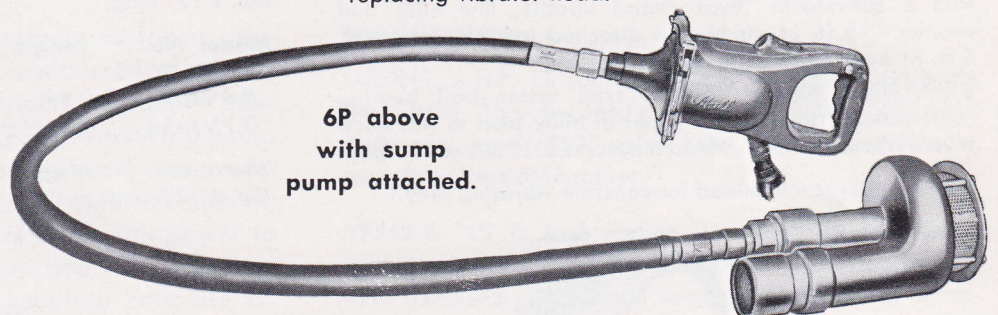
For additional length of shafting, order ball bearing coupling No. 35820 and additional lengths of same shaft and housing.

#### For Sump Pumping:

**45860** Sump pump attachment for above flexible shaft replacing vibrator head.



MODEL PSP-602



6P above  
with sump  
pump attached.

### MODEL PSP-602 SUBMERGIBLE SUMP PUMP

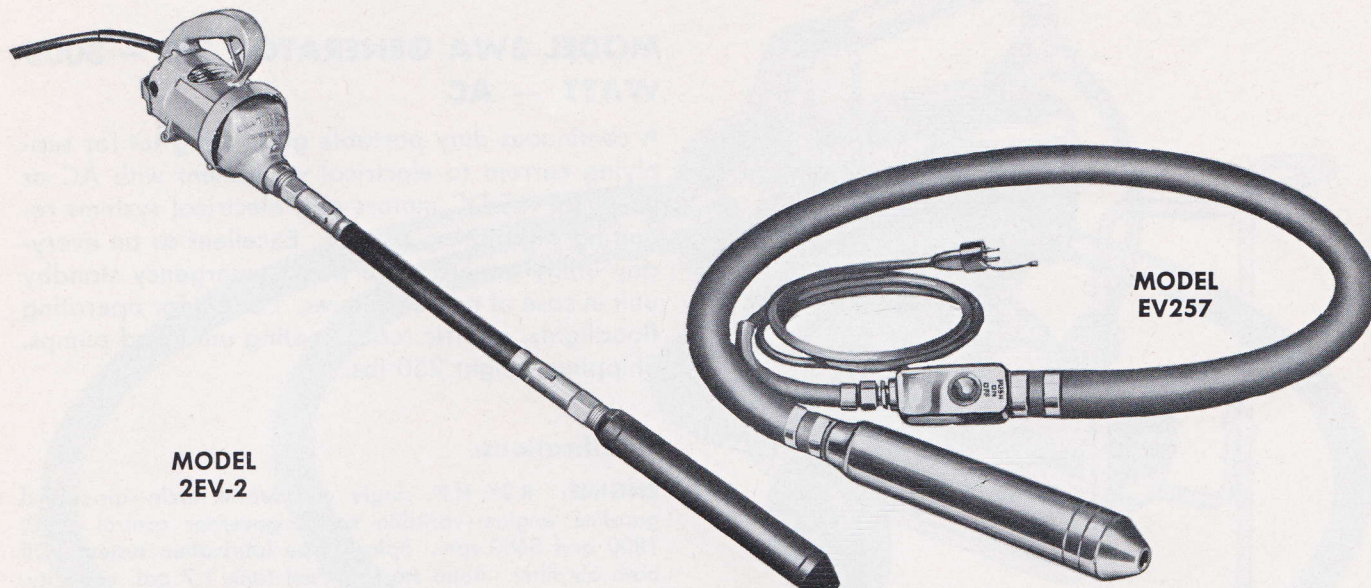
This pump (both pumping unit and air motor) is completely submerged. Pumps 14,000 gallons per hour against a 10 ft. head. Develops water pressure for a 140 ft. static head. Furnished without hose. Powered by powerful 6P air motor, automatic motor oiler — no line oiler required.

(These units recommended for concrete vibrating only.)



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## ONE MAN ELECTRIC CONCRETE VIBRATORS



MODEL  
2EV-2

MODEL  
EV257

### LIGHTWEIGHT ELECTRIC MOTOR ONE-MAN CONCRETE VIBRATORS

These units with small and medium sized vibrating heads are designed for use where reinforcements are closely spaced or where forms are extremely narrow. The 1¼" diameter head is small and will get in where others cannot go. Amplitude of vibration is amazingly great for the diameter of head. Select the unit best suited to your needs. Two sizes to choose from. Amazingly lightweight and easy to handle.

#### \*MODEL 1EV

**MOTOR:** 1 H.P., 115 volt AC-DC. 10,000 rpm with handy trigger switch. Choose length of shaft best suited:

Model No.	Length	Shaft No.	Housing No.
1EV-2	2 ft.	35814-B	36410-B
1EV-7	7 ft.	35814	36410
2A-EV-14	14 ft.	35814-A	36410-A

**VIBRATING HEAD NO. V-12:** 1¼" diameter, 12" long. Net weight with 2 ft. shafting 23 lbs.

#### \*MODEL 2EV: 1½ H.P.

**MOTOR:** 1½ H.P., 115 volt AC-DC, 10,000 rpm with handy trigger switch. Choose length of shaft best suited:

Model No.	Length	Shaft No.	Housing No.
2EV-2	2 ft.	35814-B	21070-B
2EV-7	7 ft.	35814	21070
2EV-14	14 ft.	35814-A	21070-A

**VIBRATING HEAD NO. V-17:** 1⅞" diameter x 12" long. Net weight with 2 ft. shafting, 27 lbs.

\*Unless specified 2 ft. length is furnished as standard.

### MODEL EV25 MOTOR-IN-HEAD UNIT

Lightweight, one-man concrete vibrator for operation on 115 volt AC-DC current. One man can operate for hours without fatigue since complete unit weighs only 23 lbs. Permits easy access to hard-to-reach spots, in forms, narrow strips, between reinforcing steel. Ideal for all around compacting. The Mall universal electric motor is built into the vibrator head with electric power cord to motor housed in heavy reinforced sturdy flexible rubber. You just plug in and turn on the power. Sealed motor, in head, is kept cool by the concrete itself. Handy waterproof on-off switch.

#### Specifications — EV25:

**MOTOR:** Universal electric 115 volt, AC-DC 10,000 vibrating frequencies per minute. Thermal over-load device stops motor when overheated.

**VIBRATING HEAD:** 2⅝" diameter x 16" long with built-in motor. Steel shell with hardened tip.

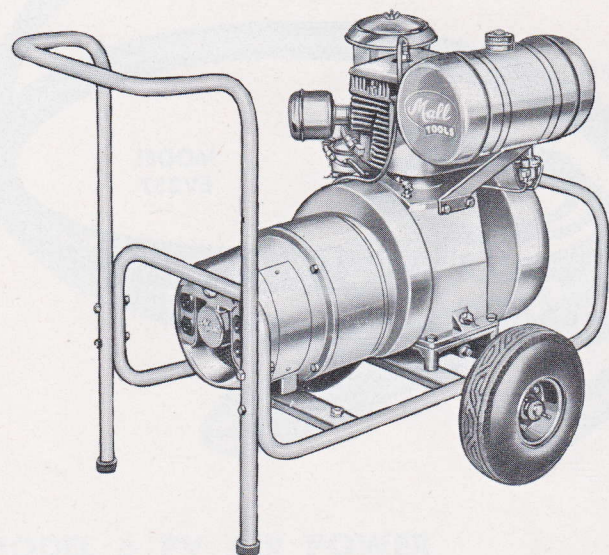
**MODEL NO. EV257:** Complete unit with 7 ft. hose. Switch located 6 ft. from head. Overall length of cord 10 ft. Shipping weight 30 lbs.

**MODEL NO. EV2514:** Complete with 14 ft. hose. Switch located 13 ft. from vibrating head. Overall length of cord 17 ft. shipping weight. 35 lbs.

(These units recommended for concrete vibrating only.)



## ELECTRIC POWER GENERATORS



**MODEL 3WA**

### MODEL 1WD GASOLINE ENGINE GENERATOR SET — 1500 WATT DC PORTABLE UNIT

To operate floodlights—DC or universal tools. Powered with a 4 cycle single cylinder aircooled gasoline engine. Conveniently mounted on skids with handy carrying handles. Rubber shock mounts to take up vibrations. Ideal for carpenters, electricians, plumbers etc. Power to spare for operating drills up to  $\frac{7}{8}$ ", circular saws up to 10", sanders, electric chain saws etc. Will also efficiently operate two Mall 1EV, 2EV or EV25 vibrators at the same time. Shipping weight 230 lbs.

#### Specifications:

**GASOLINE ENGINE** 4.6 H.P.—continuous duty aircooled engine, 3600 rpm operating speed, 4 cycle, rope starter, 1 gallon tank.

**GENERATOR RATING:** Continuous duty 1.5 KW, 1.0PF, 1.5 kilowatt, 120 volt D.C.

**OUTLET RECEPTACLE:** Two slot double TwistTite (locks in standard plugs).

**STANDARD ACCESSORIES:** Instruction book and starter rope.

**NOTE:** To determine watts consumed by electric tools multiply amperes  $\times$  volts = watts. Most electric tools have amperes listed on name plate.

### MODEL 3WA GENERATOR SET — 3000 WATT — AC

A continuous duty portable generating set for supplying current to electrical equipment with AC or universal AC-DC motors and electrical systems requiring alternating current. Excellent as an everyday utility generator or as an emergency standby unit in case of power failures. Perfect for operating floodlights, electric tools, heating units and pumps. Shipping weight 250 lbs.

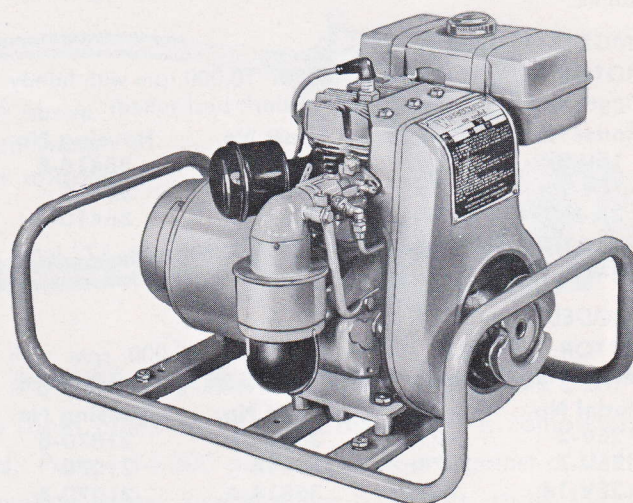
#### Specifications:

**ENGINE:** 8.25 H.P. single cylinder—4 cycle—air-cooled gasoline engine—variable speed governor control 1200, 1800 and 3600 rpm. Splash type lubrication system. Oil bath air filter. Rope starter. Fuel tank 1.7 gal. capacity.

**MOUNTING:** Available in two types of mountings: Tubular frame on (4) rubber shock mounts and with 2 handy carrying handles. Weight 196 lbs. (S) With 2 pneumatic wheels and handles. Weight 200 lbs. (W)

**RATING:** Continuous duty, 3.0 KW .8 power factor, 30.0 amps.—120 volts—AC—60 cycle at 3600 rpm.

**POWER TAKE-OFF:** 2 Duplex, Twist-Tite receptacles. 1 30 amp fusebox.



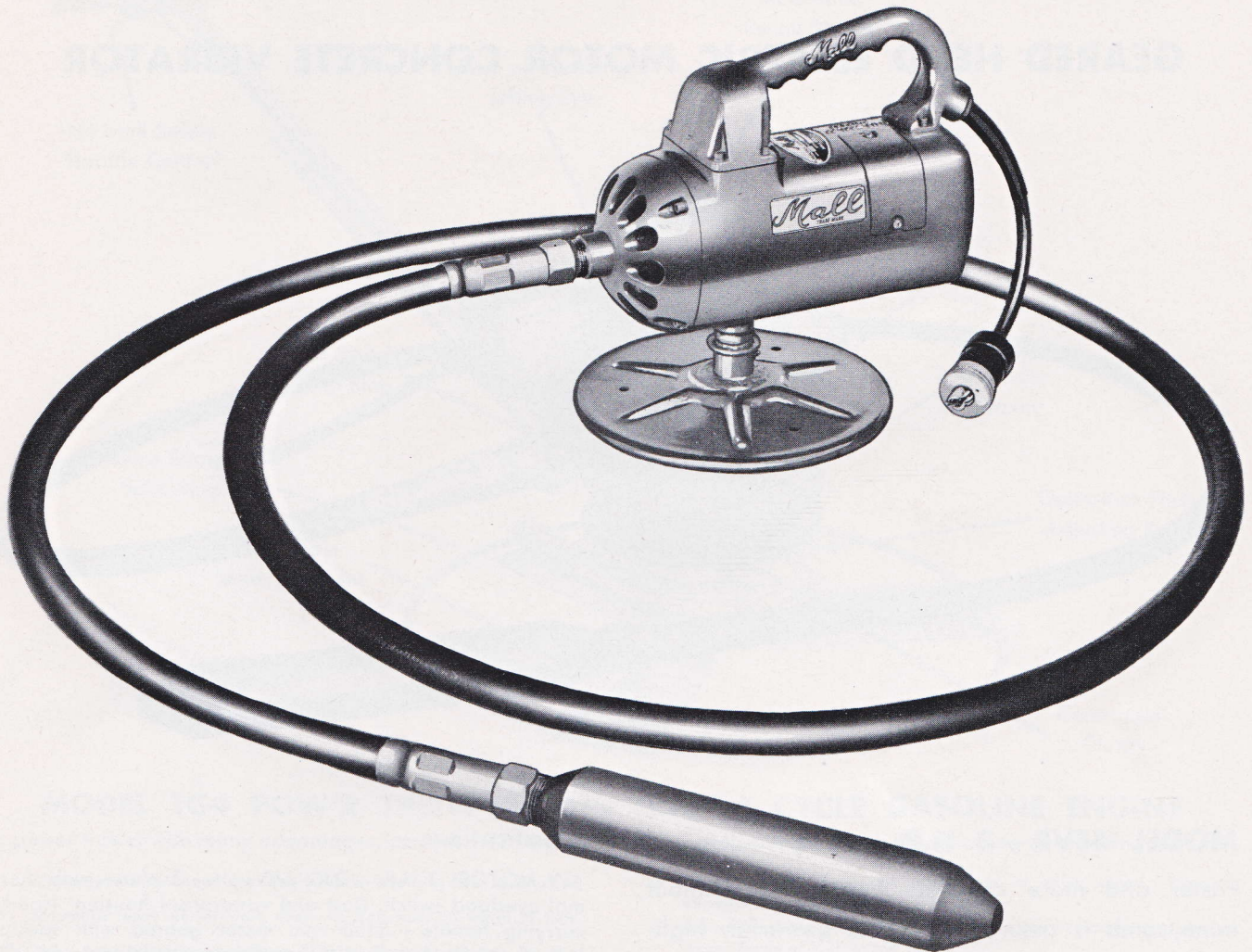
**MODEL 1WD**



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## "Universal" ELECTRIC MOTOR ONE-MAN CONCRETE VIBRATOR



### MODEL 3EVR—2 H.P.

A lightweight electric motor driven flexible shaft concrete vibrator that will plug in any 110 volt AC or DC current. Uses 28 amperes of current—will operate on Mall 3000 watt generator. 14,000 free rpm delivers 9500 vpm under 2 H.P. load. Capacity about 35 cu. yds. of concrete per hour. Designed for maximum service and ease of operation. Switch conveniently located in handle for protection against breakage. Special renewable air filter keeps out dirt and harmful abrasives. Mounted on 360° swivel base. Shipping weight with 14 ft. shafting 80 lbs.

### Specifications

**3EV MOTOR:** 2 H.P. universal electric for operation on 115 volt AC/DC—25, 50 or 60 cycle single phase current. Also available for 230 volts. Motor weight 30½ lbs. When ordering please specify voltage.

**MOUNTING:** Furnished with or without 360° round swivel base. Specify (R) when ordering round base.

**FLEXIBLE SHAFTING:** No. 35814—7 ft. or No. 35814A—14 ft. flexible shafting of high carbon steel wire wound solid to center.

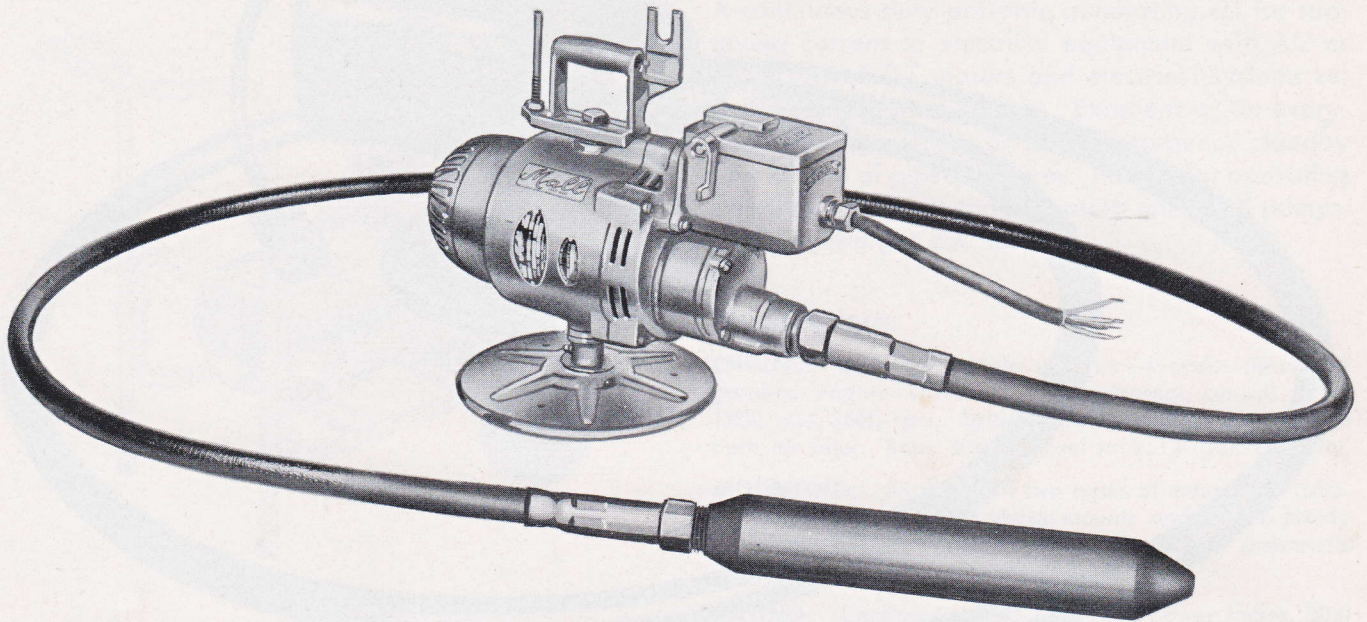
**SHAFT HOUSING:** No. 21070—7 ft. or No. 21070A—14 ft. housing with continuous inner bearing surface. Tough rubber covered, reinforced with steel wire and fabric braiding to prevent twisting and stretching.

**VIBRATOR HEADS:** V-23—2¾" diameter x 12" long. Full ball and roller bearing construction with specially hardened steel shell and tip.

**NOTE:** This unit recommended for concrete vibrating only.



## GEARED HEAD ELECTRIC MOTOR CONCRETE VIBRATOR



### MODEL 4EVR — 3 H.P.

Faster and more complete compaction without honeycomb is assured with this powerful, high-speed concrete vibrator. Made for placing large masses of concrete faster and easier. The castings used in the motor construction are special aluminum alloy for lighter weight. Unit can be carried and operated by one man. This 3 phase, ball bearing motor is rated at 3 H.P. but will deliver over 100% momentary overloads. Geared to deliver 10,000 vibration frequencies per minute. Motor has thermal overload switch for protection against motor burn-outs. Shipping weight with 14 ft. shafting 165 lbs.

### Specifications

4EV MOTOR: 3 H.P. — 220/440 volt — 3 phase with thermal overload switch. Dust and vaporproof housing. Handy, carrying handle — 3450 rpm motor geared with special helical cut hardened alloy steel gears to provide 10,000 vibration frequencies with smooth quiet operation.

MOUNTING: 360° swivel, low round base.

FLEXIBLE SHAFTS: No. 35814 — 7 ft. or No. 35814A — 14 ft. of high carbon steel wire wound solid to center.

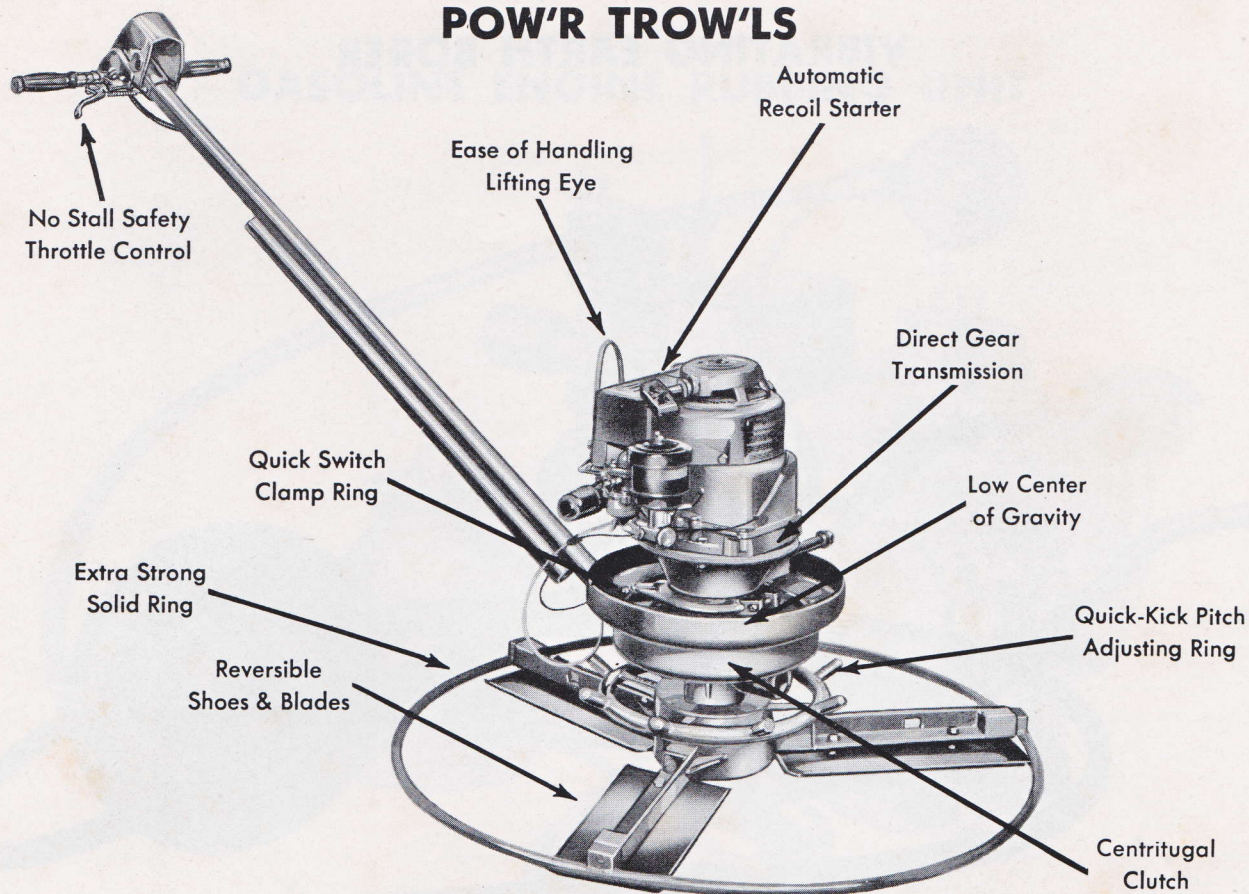
SHAFT HOUSING: No. 21070 — 7 ft. or No. 21070A — 14 ft. housing with continuous inner bearing surface. Tough rubber covered, reinforced with steel wire and fabric braiding to prevent twisting and stretching.

COUPLING: No. 35820 ball bearing used for coupling additional length of shafting together.

VIBRATOR HEAD: No. V23 — 2 $\frac{3}{8}$ " diameter x 12" length. Full ball and roller bearing construction and shells are made of specially hardened steel to resist wear. This unit recommended for concrete vibrating only. Specify voltage desired.



## POW'R TROW'LS



### MODEL TG4 POW'R TROW'LS—2½ H.P.—4 CYCLE GASOLINE ENGINE

A power trowel with many advantages, powerful 4 cycle, air cooled gasoline engine, with the following outstanding features:

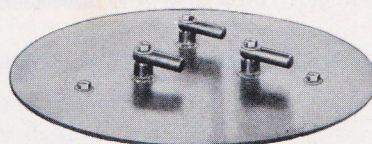
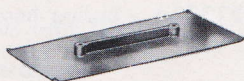
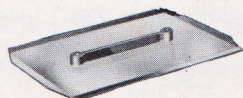
1. Lifting eye for raising or lowering machine from one floor to another.
2. Automatic recoil starter—fast, easy—no lost rope, no waste of time.
3. Direct gear transmission delivers 97% of power to blades. No slipping belts to steal valuable power and reduce efficiency.
4. "Exclusive" quick-kick pitch adjustment ring. All three blades adjust at once. No bending—a mere kick of the foot does it.
5. Low center of gravity design for easy operation.
6. Centrifugal clutch—engine disengages at idling speed. Promptly engages as engine speed increases.
7. Reversible shoes and blades. Both edges can be used giving double wear. Made of high grade steel.
8. Extra strong ¾" diameter, solid ring in 26" and 36" sizes.
9. Clamp ring for switching to a replacement engine in seconds. No belts, nuts or bolts to bother with.
10. Safety throttle control. Release handle and ring stops, engine idles. No stalling—no restarting necessary.

#### Specifications:

Model	Power Unit	Ring Size	Trowel Speed	Float Shoe	Finishing Blade	Net Weight	Ship. Weight
TG4-26	51708*	26"	128 RPM	6" x 9" for floating and finishing	Comb.	115 lbs.	130 lbs.
TG4-36	51708*	36"	100 RPM	10" x 14"	6" x 14"	125 lbs.	140 lbs.

\* No. 51708—one cylinder gasoline engine, air cooled, dust and moisture proof magneto, adjustable governor.

STANDARD EQUIPMENT: Finishing blades, canvas weight bags, heavy waterproof hood for engine and blade changing wrench.



#### POW'R TROW'L ATTACHMENTS

##### Finishing Blades

52621 A—26" combination finishing and floating blade (set of 3)

51205 A—36" finishing blade (set of 3)

##### Floating Shoes

51756 A—36" floating shoe (set of 3)

##### Floating Disc

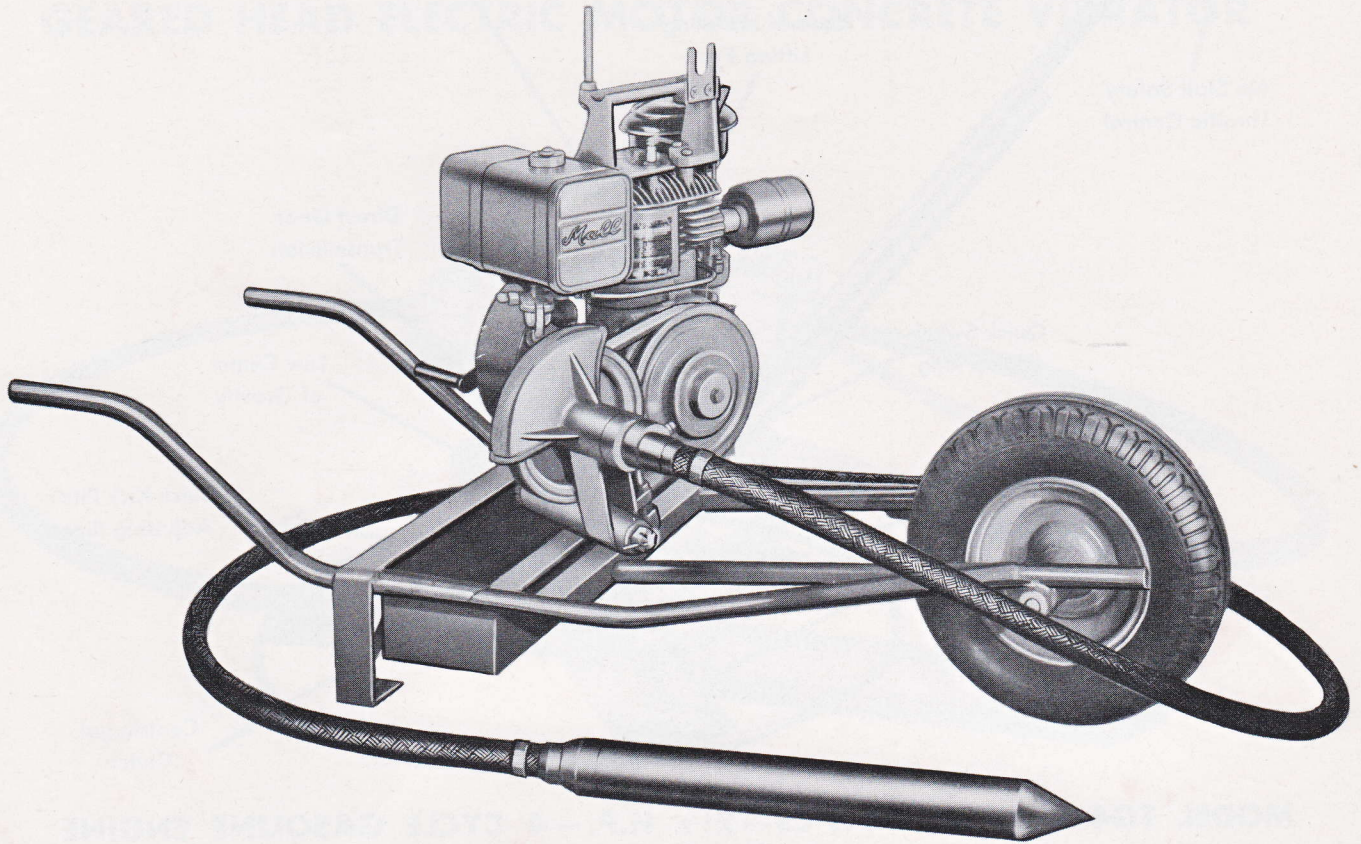
51900—23" dia. disc for smoothing dry tamp floors. Easily mounts in blade sockets.

##### Grinding-Grouting Head

52455—same as disc above, with 3 perforated stone grinding heads. For dry or wet grinding concrete floors.

52337 A—replacement stones—3 sets (of 3) required.



**VIBRATING EARTH BORER****MODEL 14EBW**

Revolutionary new development for boring holes underneath sidewalks and pavements. Vibrator head quickly bores 2 inch holes straight through the soil, under concrete sidewalks, even under wide driveways and streets. Back-breaking and costly time consuming jobs made quick and easy. The borer head stays right on a straight course all the way through the soil resulting in easier, quicker more profitable laying of underground piping and wiring. The Mall Power Borer makes a hole without removing any soil. Shipping weight 280 lbs.

**Specifications:**

**ENGINE:** 5 H.P. — 4 cycle single cylinder air cooled gasoline engine. Equipped with countershaft, V belt drive, automatic centrifugal clutch and variable speed control.

**MOUNTING:** Pneumatic tired wheelbarrow.

**38514 FLEXIBLE SHAFTS:** 3 lengths of 7 ft. each — high carbon steel wire wound solid to center square driving ends.

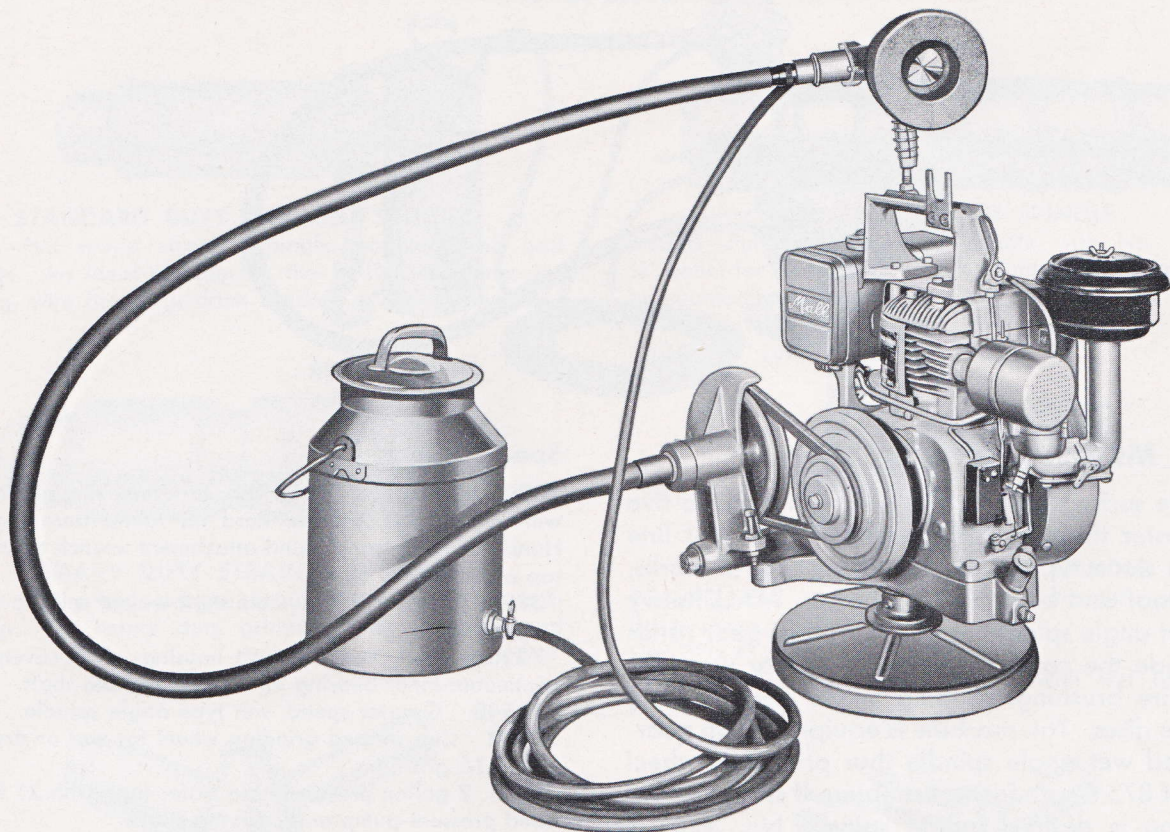
**21070G SHAFT HOUSING:** 3 lengths of 7 ft. each heavy duty rubber covered housing with smooth continuous wound internal bearing surface — with a special reinforcing wire braid over the top for additional strength.

**35820** — Ball bearing couplings between each length of shafting.

**51390A** — Boring head 1-13/16" diameter x 23 3/4" long.



## GASOLINE ENGINE RUBBING UNIT



### 14G — 5 H.P.

Designed for heavy-duty surfacing and rubbing of concrete. Countershaft assembly provides speeds as low as 1200 rpm — thus with the 1/10th speed angle spindle as low as 120 rpm is provided for wet rubbing. Excellent for removing board and fin marks. Produce that fine Bedford stone finish, waterproof and beautify by rubbing. One operator can surface and secure a finer finish than by hand methods — and 4 to 5 times as fast.

Shipping weight 250 lbs.

Shafting available in multiples of 7 ft. or 14 ft.

Mall 4 spline straight and angle spindles and attachments may be used with this unit for sanding, drilling, grinding and other operations.

53533 sump pump will fit directly to adapter shaft and housing.

### Specifications

**ENGINE:** 14G — 5 H.P. 4 cycle, air cooled, variable speed gasoline engine, countershaft drive with automatic clutch ... countershaft speeds from 1200 to 8300 rpm. Equipped with air and gasoline cleaner, compression release, adjustable speed governor, crank starter, 1 gal. fuel tank, and 3 pt. oil case.

**MOUNTING:** Choice of two: (R) 360° swivel round base or (W) No. 6640 wheelbarrow mounting with pneumatic tire — at additional cost.

**\*32984B** — 7 ft. adapter flexible shaft — high carbon steel wire wound solid to center. 4 spline drive.

**\*36682B** — 7 ft. adapter housing — tough rubber outer covering.

**22610B** — Tenth speed wet type angle spindle.

**22972** — 6" x 2" — 16 grit cup shaped grinding wheel.

**2668** — 3 gallon gravity flow water tank with 25 ft. rubber hose.

### EXTENSION SHAFTING AND HOUSING

**35814** — 7 ft. flexible shaft.

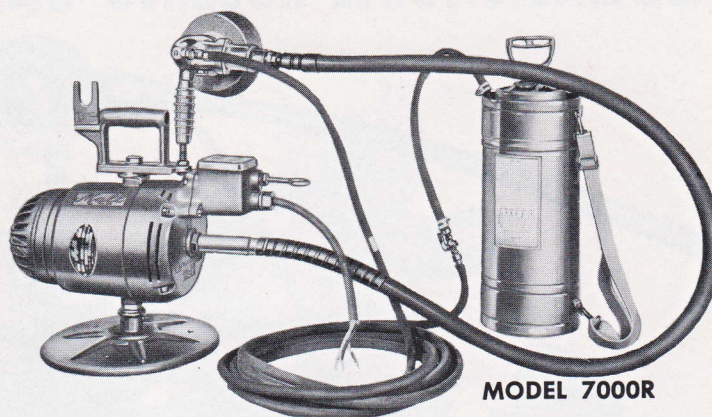
**21070** — 7 ft. shaft housing.

**35820** — Ball bearing coupling to connect lengths of shafts and housing.

\*32984C—14 ft. adapter flexible shaft — 36682C—14 ft. adapter housing may be ordered instead at additional cost.



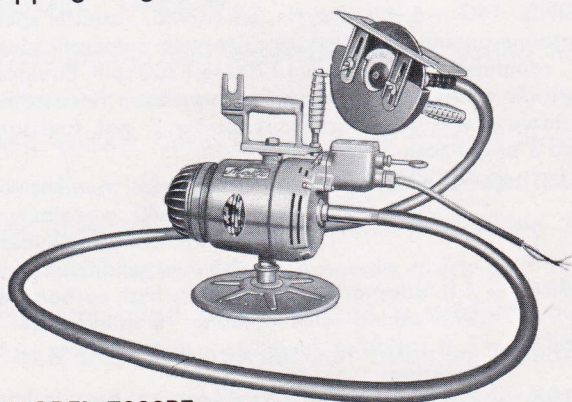
## ELECTRIC CONCRETE RUBBING MACHINE



MODEL 7000R

### MODEL 7000R 3/4 H.P.

Concrete surfacing with this machine is four to five times faster than by hand methods. For that fine Bedford stone type of finish. Remove form marks, waterproof and beautify by rubbing. MALL heavy duty wet angle spindles come in various gear ratios to provide the correct speeds for dry or wet rubbing, wire brushing, sanding or for using flexible abrasive discs. This machine is equipped with quarter speed wet angle spindle thus providing wheel speed of 875 r.p.m. for wet rubbing. If slower wheel operation is desired, angle spindle No. 22610B tenth speed may be used, thus providing 345 r.p.m. Shipping weight 75 lbs.



MODEL 7000RT

### Specifications

**7000** ¾ H.P. motor, 115 volt, 60 cycle, single phase, AC with one ft. 3 conductor cord on round base mounting. Handy carrying handle and attachment wrench mounted on top of motor.

**\*32952A** ¾" x 7 ft. flexible shaft wound solid to center—4 spline drive.

**\*7320A** 7 ft. flexible shaft housing—vinyl covered with continuous inner bearing surface for flexible shaft.

**31154B** Quarter speed, wet type angle spindle.

**22972** Cup shaped grinding wheel for wet or dry grinding — 16 grit.

**7550** 2 gallon pressure type water tank with 25 ft. hose, hand pressure pump and carrying straps.

**Equipment:** 7000R unit furnished with above equipment — Motor, 7 ft. flexible shaft and housing, angle spindle, cup grinding wheel, pressure water tank and pump.

**\*32952B**—14 ft. flexible shaft and **7320B**—14 ft. housing optional at additional cost.

### ADDITIONAL ATTACHMENTS:

**6310B** Straight spindle for edge type grinding and wire brushing.

**30811B** Full speed angle spindle for dry sanding and grinding.

**34427** Adapter kit for using depressed center abrasive discs with angle spindle.

**34464** 7" dia. x ¼" thick flexible abrasive discs.

**34465** 7" dia. x ⅛" thick flexible abrasive discs.

**17330B** Ball bearing coupling for attaching additional lengths of flexible shafting. For 7 additional feet order 1 No. 32952A flexible shaft, 1 No. 7320A housing and one coupling.

## ELECTRIC TUCK POINTING GRINDER

### MODEL 7000RT 3/4 H.P.

For quick, easy routing of old mortar in preparation for tuck pointing. Swivels on full 360° on round base mounting. Special wheel guard has depth adjustment from 0 to 3". Uses same motor as 7000R above and may also use same additional attachments. Shipping weight 75 lbs.

### Specifications

**7000** Motor — same as above.

**\*32952B** ¾" dia. x 12 ft. flexible shaft — 4 spline drive.

**\*7320B** 12 ft. flexible shaft housing.

**16060B** Straight spindle and wheel guard assembly.

**5798** ¾" x 8" edge type tuck pointing abrasive wheel.

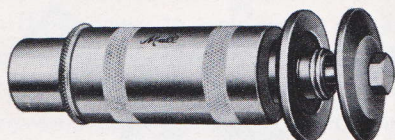
Also available: ¼" x 8" edge type grinding wheel.

**\*32952A**—7 ft. flexible shaft and **7320A**—7 ft. housing furnished at lower cost if desired.



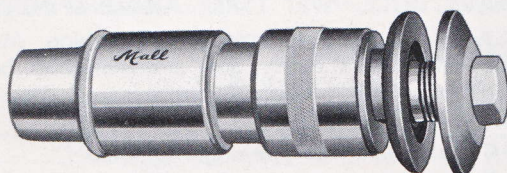
## MALL ANGLE AND STRAIGHT SPINDLES

### 4 SPLINE



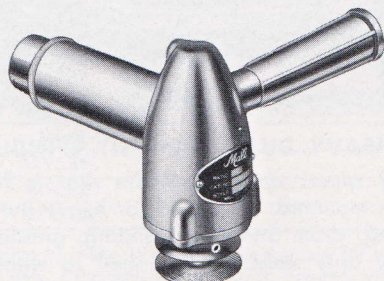
#### STANDARD DUTY STRAIGHT SPINDLE

**6310B**—Full speed straight spindle mounted with ball bearings. An ideal spindle for the  $\frac{3}{4}$  H.P. machines for grinding, wire brushing, drum sanding and polishing.



#### HEAVY DUTY STRAIGHT SPINDLE

**38840**—Full speed straight spindle with long life ball bearings. For heavy duty grinding, wire brushing and sanding.



#### MALL "DRY" ANGLE SPINDLES

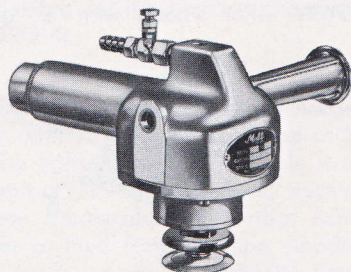
These spindles are made in 4 speed ratios, full speed, half, third and quarter speeds. For use on Mall 4 spline shafts only. Ideal for sanding and polishing.

**30811B**—Full speed angle spindle.

**30812B**—Half speed angle spindle.

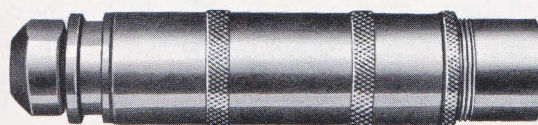
**30813B**—Third speed angle spindle.

**30814B**—Quarter speed angle spindle.



#### STANDARD DUTY "WET TYPE" ANGLE SPINDLE

**22610B**—One-tenth speeds, "wet type" angle spindle for low speed grinding or rubbing. Operates attachments at "one-tenth" shaft speed. Precision ball bearing mounted for smooth long life performance. Fits all Mall 4 spline shafts.

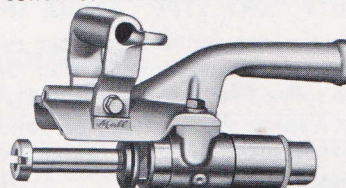


#### STRAIGHT COLLET SPINDLE

**2403B**—Full speed straight spindle with No. 9585A —  $\frac{1}{4}$ " collet for use in operating  $\frac{1}{4}$ " rotary files, abrasive rolls or mounted grinding wheels.

**15277**— $\frac{3}{16}$ " collet for above.

**15276**— $\frac{1}{8}$ " collet for above.

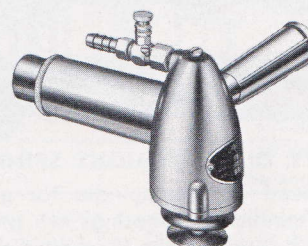


#### COVE BASE TERRAZZO SPINDLE

**B3430D**—Full speed ball bearing straight spindle for dry terrazzo grinding.

Uses 3" x 4" cove base wheels.

**B3430W**—Same as above except with wet attachment for wet grinding.



#### HEAVY DUTY "WET" ANGLE SPINDLES

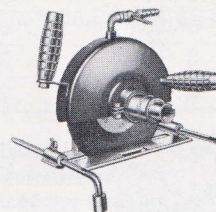
For wet grinding and sanding. Precision ball bearing mounted. Housing of lightweight, sturdy aluminum alloy.

**31151B**—Full speed wet type angle spindle.

**31152B**—Half speed wet type angle spindle.

**31153B**—Third speed wet type angle spindle.

**31154B**—Quarter speed wet type angle spindle.



#### STAIR GROOVING AND TUCK POINTING ATTACHMENTS

**20202**—Stair grooving attaching for 4 spline terrazzo grinder shafts for grooving, sawing and cut-off operations on floors, sidewalks and marble slabs. Adjustment for depth and distance from edge to groove.

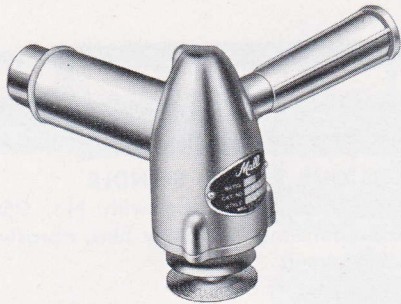
**16060B**—Straight spindle and wheel guard assembly for tuckpointing.

**5798**— $\frac{3}{16}$ " x 8" edge type grinding wheel.

**6558**— $\frac{1}{4}$ " x 8" edge type grinding wheel.



## MALL ANGLE AND STRAIGHT SPINDLES SIX SPLINE



### HEAVY DUTY "DRY TYPE" ANGLE SPINDLES

These angle spindles are furnished in four speed ratios—full, half, third and quarter speeds, and are made to operate on the 6 spline heavy duty shafts only, and will not fit on the lighter 4 spline shafts. Full precision ball bearing construction for long life and smooth operation.

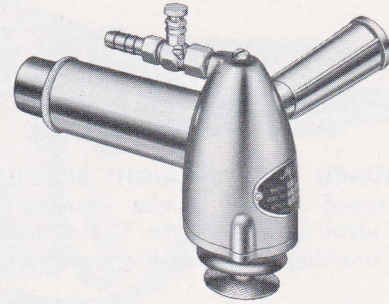
**31161C**—Full speed angle spindle.

**31162C**—Half speed angle spindle.

**31163C**—Third speed angle spindle.

**31164C**—Quarter speed angle spindle.

**9411C** —Full speed angle spindle (sealed bearings).



### HEAVY DUTY "WET TYPE" ANGLE SPINDLES

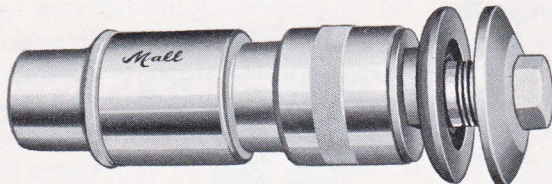
For all types wet grinding, sanding and rubbing. Made in 4 speed ratios. Full heavy duty precision ball bearing mounted for smooth, continuous performance. Housing of lightweight aluminum alloy.

**31171C**—Full speed wet type angle spindle.

**31172C**—Half speed wet type angle spindle.

**31173C**—Third speed wet type angle spindle.

**31174C**—Quarter speed wet type angle spindle.



### HEAVY DUTY STRAIGHT SPINDLE

**14940C**—Full speed straight spindle for grinding under extremely dusty conditions. Bearings are precision sealed type. This bearing design allows long spindle life under the most severe operating conditions.

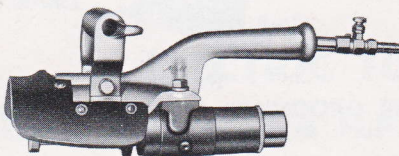


### HEAVY DUTY STRAIGHT SPINDLE

**23500**—Full speed straight spindle that is full precision ball bearing mounted. Designed for heavy duty edge type wire brushing, drum and cone sanding, grinding and buffing. Heavy duty steel housing shell to withstand rough handling.

### GRINDING WHEEL GUARDS FOR ALL STRAIGHT 4 AND 6 SPLINE SPINDLES

Guard No.	Wheel diameter	For Spindle No.
21697	6 inch	38840
21698	6 inch	6310B
11583	8 inch	38840
11584	8 inch	23500 and 14940C



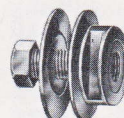
### COVE BASE STRAIGHT SPINDLES FOR 6 SPLINE SHAFTS

**C2870D**—Dry type straight spindle with wheel guard for using 3" x 4" cove base wheels.

**C2870W**—Wet type cove base straight spindle with water attachment for wet type cove base grinding. Uses 3" x 4" cove base wheels.

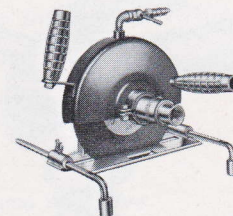
### GRINDING WHEEL ADAPTER

Straight spindles will use wheels with  $\frac{3}{4}$ " arbor hole without a special adapter.



**18987**—Makes  $\frac{1}{2}$ " arbor grinding wheels adaptable to Mall spindles.

**9697** —For wheels with  $\frac{5}{8}$ " arbor holes.



### STAIR GROOVING ATTACHMENT FOR 6 SPLINE SHAFTS

**20202-H**—For cutting stair treads or recesses and for grooving, sawing and cut-off operations on floors, sidewalks and marble slabs. Adjustment for depth and distance from edge to groove. For 8" diameter abrasive cutting wheels  $\frac{1}{8}$ " to  $\frac{1}{2}$ " thick.



## ATTACHMENTS FOR MALL CONCRETE VIBRATORS

### MALL VIBRATOR HEADS

Mall vibrator heads are especially designed to provide faster, easier and lower cost placing of concrete. They operate on heavy duty ball and roller bearings and have hardened steel alloy shells and tips to withstand constant abrasion. Vibration prevents honeycombing, voids and aggregate pockets — eliminates expensive hand patch-

ing when forms are removed. Concrete jobs are finished faster with less labor. Produces very dense concrete with increased compression and flexural strength, by forcing air to the surface. Assures a better bond between concrete and reinforcement and between successive layers. Eccentric rotors lead filled for greater amplitude.

### VIBRATOR HEADS

Number	V12	V17	V23	V32	19910A*	19510A*	11690E**	18700E**
Dia.—inches	1 1/4	1 7/8	2 3/8	3 1/4	2 3/8	1 7/8	2 1/8	1 7/8
Length—inches	12	12	12	12	20	20	14	20

\*Use only with 7GV gasoline vibrator.

\*\*Use only with 32GV gasoline vibrator.

### VIBRATOR FLEXIBLE SHAFTS AND HOUSINGS

To fit Mall Gasoline Engine and Electric Motor Vibrators (except No. 32GV)

Head No.	Length	Housing No.	Flex. Shaft No.
V17, V23, V32	2 ft.	21070B	35814B
	7 ft.	21070	35814
19510E, 19910E	14 ft.	21070A	35814A
	2 ft.	36410B	35814B
V12	7 ft.	36410	35814
	14 ft.	36410A	35814A
19910A*	7 ft.	19540P*	35814
19510A	7 ft.	19170P	35814

\*Housing No. 19540P has a special heavy duty tapered increase in diameter of housing at vibrator end to give longer wear. No. 19910P assembly as furnished on 7GV vibrator consists of 1 - 19910A vibrator head, 1 - 35814 shaft, 1 - 19540P housing and 1 - 35820 coupling.

### FLEXIBLE SHAFTS AND HOUSINGS FOR 32GVR VIBRATOR

Shaft	Housing	Length	Fits Head No.
32952B	11711	12 ft.	11690E
32952B	18700B	12 ft.	18700E
32952A*	7320A*	7 ft.	Fits engine only

\*Used for extension to make 19 ft. or more shafting for vibrating operations. No. 11711 and No. 18700B housings have thread detail that will fit vibrator heads only. Extensions (7320A—7 ft. shaft or 7320B—12 ft. housing with 32952B—12 ft. shaft) are used with 4 spline spindles or 53533 sump pump.

### SHAFT AND HEAD COMBINATIONS FOR 32GV VIBRATOR ONLY

**18700D VIBRATOR KIT** — Consists of 18700E vibrator head, 18700B 12 ft. housing, 32952B shaft.

**11690D VIBRATOR KIT** — Consists of 11690E vibrator head, 11711 12 ft. housing, 32952B shaft.

### BALL BEARING COUPLINGS

To connect two lengths of flexible shafts and housings a ball bearing coupling is required.

**35820** — to connect shafts for all Mall current model flexible shaft vibrators excepting Model No. 32GVR.

**17330B** — for connecting shafts on No. 32GVR.

### SUMP PUMP ATTACHMENTS

**53533 CAPACITY:** Using 1 1/4" I.D. discharge hose — 3180 gallons per hr. with 15 ft. discharge head at 3200 RPM. Capacity as fire fighter pump with usable stream — 25 psi, 45 GPM through a 1 1/4" hose with a 1/2" nozzle.

A multi-purpose submersible pump that can be used for pumping water or mud from swamps, flooded basements, lakes, shallow wells, or pits up to 55 ft. Operates from a 2 H.P. gasoline engine or 3/4 H.P. constant speed electric motor, Mall 7000. Pump has female 4 spline drive.

To use with Mall No. 32GVR — 2 H.P. gasoline engine vibrator, use shaft housing No. 7320B instead of vibrator housing 11711.

**45860 CAPACITY:** Using 2" discharge hose — 10,500 gallons per hr. with 23 ft. discharge head at 3800 RPM or 8100 gallons per hr. with 23 ft. discharge head at 3200

RPM. For fire fighting throws two effective fire streams a vertical distance of 75 ft. with two 1 1/2" I.D. x 25 ft. hoses and two 7/16" discharge nozzles.

Flexible shaft housing connection 1" NPT — Flexible shaft drive .438 square internal drive—standard vibrator shafting. May be used with Mall 2MG engine or 6P chain saw air motor with the following:

A. 41710 — direct drive transmission.

B. (1) — 35814 — 7 ft. flexible shaft.

(2) — 35814A — 14 ft. flexible shaft

C. (1) — 21070 — 7 ft. flexible shaft housing

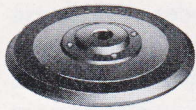
(2) — 21070A — 14 ft. flexible shaft housing.

To use with 7GV gasoline engine vibrator—attach flexible shaft and housing directly to engine drive shaft after removing engine pulley—using adapter No. 38380 on engine shaft.



## ATTACHMENTS FOR USE WITH MALL ANGLE AND STRAIGHT SPINDLES

### RUBBER BACKING PADS



**6141B** — 7" rubber backing pad for all metal and wood disc sanding. Heavy rubber face is rigidly reinforced for long continuous service.  $\frac{3}{4}$ " arbor hole for use with Mall spindles.

**1192B** — Same as above but for using 9" abrasive discs.

### ADAPTER FOR USING DEPRESSED CENTER WHEELS

Abrasoflex depressed center flexible abrasive wheels for all sanding operations. Wet rubbing concrete and dry sanding metal, welds, etc.

**34427** — adapter for use with .800"-12 thread arbor.

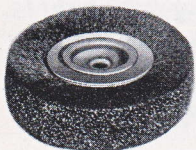
**34428** — adapter same as above but  $\frac{5}{8}$ "-11 thread for Mall Electric Sanders No. 47S, 57S or 59S.

### PRESSURE TYPE WATER TANK



**7550** — Used with wet type angle and straight terrazzo spindles. Equipped with hand pump and carrying strap. Can be placed on same level or below the power unit with its pressure action. Holds 2 gallons of water. Furnished with 25 ft. of  $\frac{3}{8}$ " hose.

### EDGE TYPE WIRE BRUSHES



**2019** — 6" x 1 1/2" edge type wire brush for rust removal and other smoothing and cleaning operations. 30 gauge wire.

No.	Gage	Diameter	Width
2019B	33	6"	1 1/2"
2019C	38	6"	1 1/2"

### CUP SHAPED WIRE BRUSHES

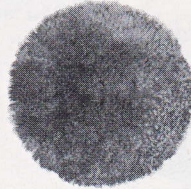


**6024** — 4 inch wire brush for removing paint, rust, dried concrete from forms, or corrosion. Has  $\frac{3}{4}$ " arbor hole.

**3033** — same as above but 6" diameter.

Furnished in these gages and sizes:

No.	Gage	Diameter
6024	25	4 inch
3033	25	6 inch
3033A	20	6 inch
3033B	30	6 inch
3033C	36	6 inch



### WOOL BUFFING BONNETS

For polishing painted surfaces and metals.

**32089** — 8 inch wool bonnet (use with 7" pad)

**2473** — 9 inch wool bonnet (use with 9" pad)

**2474** — 11 inch wool bonnet (use with 9" pad)



### 1/2" CAPACITY HAND TIGHT DRILL CHUCK

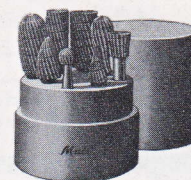
**2018A** — specially threaded to fit Mall angle and straight spindles with .800 x 12 thread. Fine for drilling in concrete, wood or metal.



### GRAVITY FLOW WATER TANK

**2668** — 3 gallon capacity gravity flow tank with 25 ft. of  $\frac{3}{8}$ " hose. For use with Mall angle and straight spindles for wet grinding and sanding. Tank is placed slightly above the operating head so that water flows to the work.

### MILL CUT FILE SET



**8380** — set of eight assorted sizes and shapes, all with  $\frac{1}{4}$ " shanks for use in Mall collet handpiece or other  $\frac{1}{4}$ " high speed tools.

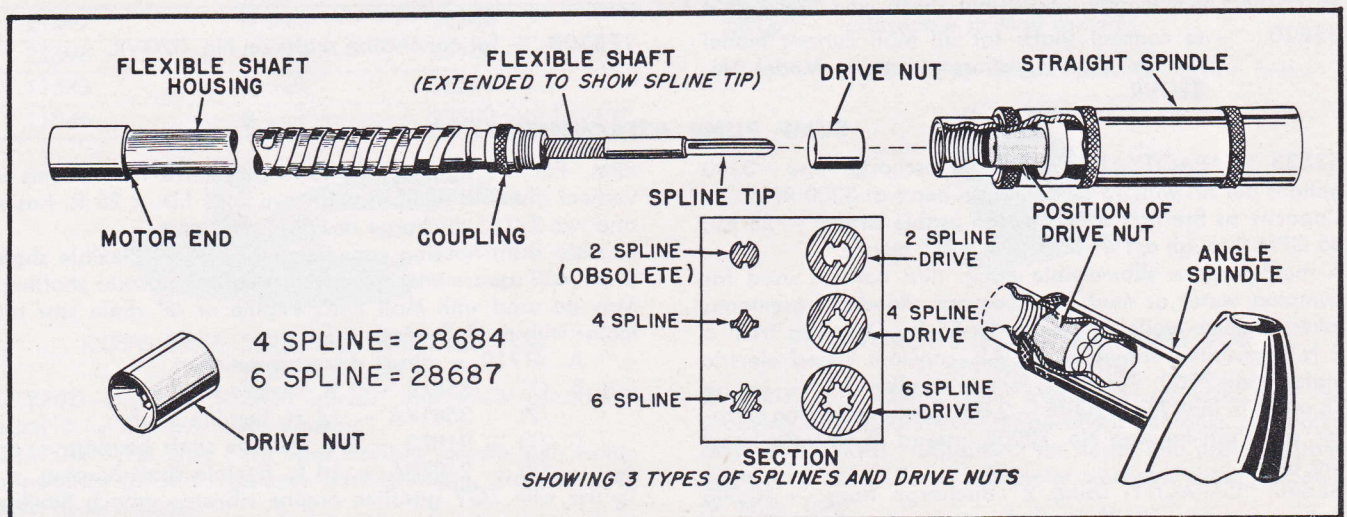
#### Shapes:

Cylindrical, ball nose	Cone shaped
Tree shaped	Ball shaped
Cylindrical flat end	B shaped
Oval shaped	Inverted cone

### BALL BEARING COUPLING TO CONNECT GRINDER SHAFTS TOGETHER

**17330B** — for connecting two 4 spline shafts together having 1" - 20 thread housing one end and 1" - 24 thread other end of housing.

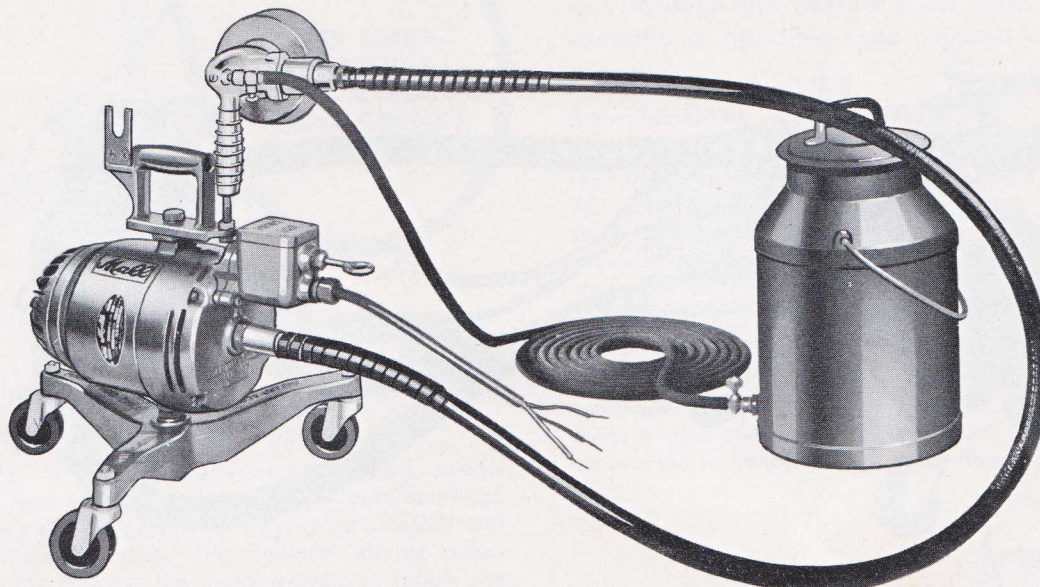
## FLEXIBLE SHAFT INFORMATION





## 3/4 H. P. TERRAZZO GRINDER Model 3EG

Built To Take It . . . Turn out better finishes with more production per man. This unit built with the operator in mind. Dust and vaporproof motor mounted on low underslung base on easy rolling casters. Handy carrying handle with built-in attachment wrench conveniently mounted on top of motor. Extra flexibility of flexible shaft for easy handling. Many attachments for exceptional versatility. Cove base and stair work made easier. Shipping weight 95 lbs.



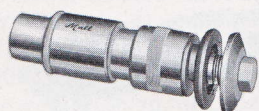
### MODEL 3EG TERRAZZO GRINDER CONSISTS OF:

- 7000** — 3/4 H.P. dust and vapor-proof motor — 110/220 volt, 60 cycle single phase, AC. 3450 rpm.
- 3927** — Low swiveling, easy rolling caster base with carrying handle and attachment wrench.
- 32953A** — 1/2" diameter x 7 ft. flexible shaft of high carbon steel wire. With 4 spline driving ends.
- 3856A** — 7 ft. rubber covered flexible shaft housing.
- 31151B** — Full speed wet type angle spindle.
- 2668** — 3 Gallon gravity feed water tank with 25 ft. hose.
- 22979** — 6" x 2" (50 med. grit) cup grinding wheel.

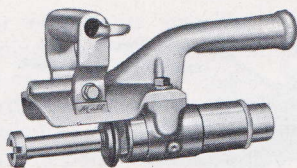
### OTHER ATTACHMENTS FOR 3EG

- 7000-CO** — Same motor as 7000 except with voltage change-over switch.
- 12189** — Voltage change-over switch for 110/220 volt.
- 7550** — 2 gallon pressure type water tank with 25 ft. hose.
- 20202** — Stair grooving attachment with straight spindle for use on 4 spline shaft. For cutting grooves on terrazzo stair treads. Depth and distance adjustment. 1/8" to 1/2" width wheels.
- 2018** — 0 to 1/2" capacity drill chuck complete with adapter.

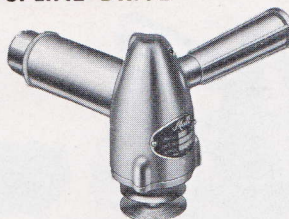
### SPINDLES FOR USE ON THE 3EG TERRAZZO MACHINE WITH 4 SPLINE DRIVE



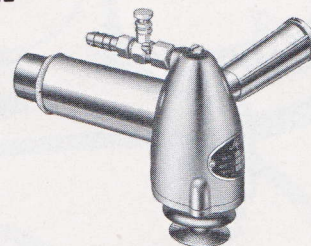
**DRY TYPE  
STRAIGHT SPINDLE**  
38840—Full Speed



**COVE BASE SPINDLE**  
B3430D—(Dry) Full Speed  
**COVE BASE SPINDLE**  
B3430W—(Wet) Full Speed



**DRY TYPE ANGLE SPINDLES**  
30811B—Full Motor Speed  
30812B—2 to 1 Reduction  
30813B—3 to 1 Reduction  
30814B—4 to 1 Reduction

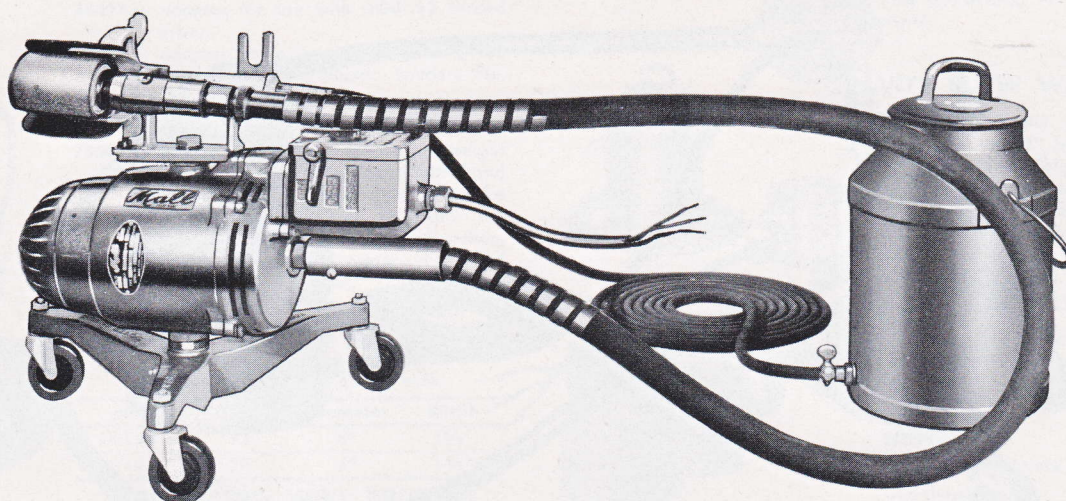


**WET TYPE ANGLE SPINDLES**  
31151B—Full Motor Speed  
31152B—2 to 1 Reduction  
31153B—3 to 1 Reduction  
31154B—4 to 1 Reduction



## 1½ H. P. TERRAZZO GRINDERS Model 6EG

Cove base, stair and border work made easier with these special machines. Built to take it! Dust and vaporproof ball bearing motors with smooth, reliable power. Turn out better finishes with more production per man. Mounted on low base with casters, easily follows operator. Light weight aluminum alloy motor housing. Motor equipped with dust and vapor-proof switch with one ft. electric cord. Shipping weight 125 lbs.



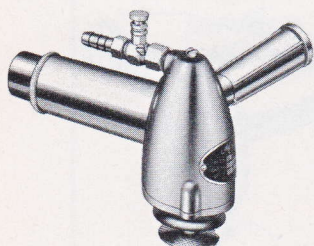
### MODEL 6EG TERRAZZO GRINDER CONSISTS OF:

- |               |  |             |  |
|---------------|--|-------------|--|
| <b>9300</b>   | — 1½ H.P. dust and vaporproof motor — 110/220 volt, 60 cycle single phase AC 3450 rpm.                       | <b>2668</b> | — 3 gallon gravity feed water tank with 25 ft. hose. |
| <b>9332</b>   | — Low swiveling base on easy rolling casters with carrying handle and attachment wrench.                     |             |  |
| <b>32957A</b> | — 5/8" diameter by 7 ft. flexible shaft of high carbon steel.  |             |  |
| <b>4790A</b>  | — 7 ft. rubber covered flexible shaft housing.   |             |  |
| <b>C2870W</b> | — Wet type cove base straight ball bearing spindle for 3" x 4" grinding wheel with special guard and handle. |             |  |
| <b>22922</b>  | — 3" dia. x 4" long cove base grinding wheel for straight spindle.   |             |  |

### OTHER ATTACHMENTS FOR 6EG

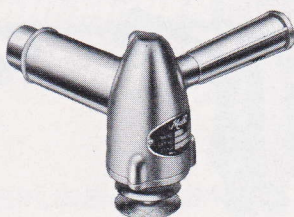
- |               |   |
|---------------|---|
| <b>9300CO</b> | — Same motor as 9300 but with voltage change-over switch.   |
| <b>12189</b>  | — 110/220 voltage changeover switch.  |
| <b>7550</b>   | — 2 gallon pressure type water tank with 25 ft. hose.   |
| <b>20202H</b> | — Stair grooving attachment for cutting stair treads or recesses. Has depth and distance adjustment. Uses wheel 1/8" to 1/2" thick. |

### SPINDLES FOR USE ON THE 6EG TERRAZZO GRINDER WITH 6 SPLINE DRIVE



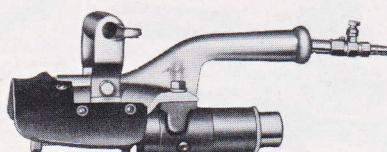
**WET TYPE ANGLE  
SPINDLES**

9911C—Full Motor Speed  
9953C—5 to 3 Reduction  
9935C—3 to 5 Reduction



**DRY TYPE ANGLE  
SPINDLES**

31161C—Full Motor Speed  
31162C—2 to 1 Reduction  
31163C—3 to 1 Reduction  
31164C—4 to 1 Reduction



**COVE BASE SPINDLE  
C2870D—(Dry) Full  
Speed**

**COVE BASE SPINDLE  
C2870W—(Wet) Full  
Speed**

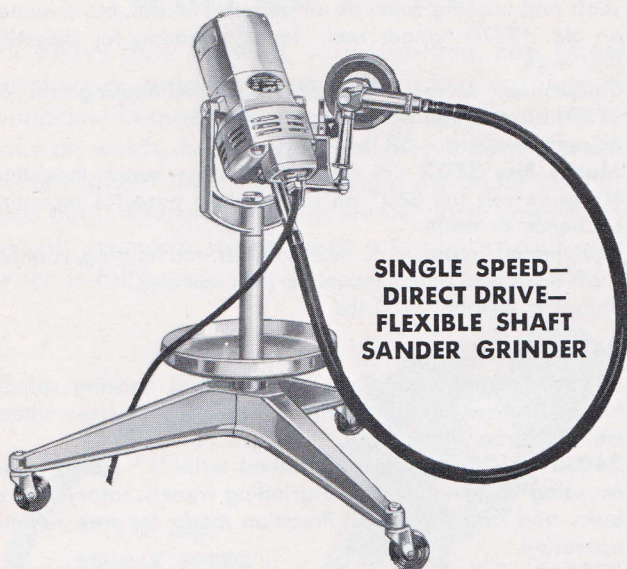


**DRY TYPE  
STRAIGHT SPINDLE  
23500—Full Speed**



## FLEXIBLE SHAFT MACHINES

FOR GRINDING, SANDING, WIRE BRUSHING, ETC.



MODEL 1EGP

**Model 1EGP:**  $\frac{3}{4}$  H.P. Pedestal mounting. Tilting, swiveling pedestal type tripod mounting with die cast aluminum legs and heavy duty casters. Tool tray, spindle holder and built in attachment wrench. This pedestal can be rolled anywhere in the shop — the motor swivels to follow the operator's every movement. Equipment: motor, pedestal (No. 29910) 6 ft. flexible shaft and housing (less spindle). Shipping weight: 160 pounds.

**Model 1EGH:** Motor and shaft same as No. 1EGP but motor mounted on hanger bail for overhead suspension. Desirable in foundries and other places where floors are rough and uneven.

Equipment: Motor, hanger bail No. 3922, 6 ft. shaft and housing and handy shaft hook (less spindle). Shipping weight: 50 pounds.

**Model 1EGU:** Motor and Shaft same as above but motor mounted on low underslung easy rolling caster base with carrying handle, tool holder and attachment wrench mounted on motor housing.

Equipment: Motor, underslung carriage No. 21238, 6 ft. flexible shaft and housing (less spindle). Shipping weight: 100 pounds.

### ATTACHMENTS:

**6310B** Straight spindle for edge type grinding, wire brushing or drum sanding. Spindle has .800" x 12 thread. Will use wheels with threaded or  $\frac{3}{4}$ " arbor hole.

**21698** Grinding wheel guard for 6" dia. grinding wheels.

**30811B** Full speed angle spindle for cup wheel grinding or wire brushing, disc sanding and polishing.

**6141B** Rubber backing pad for 7" abrasive discs or 8" wool bonnet.

**34427** Adapter kit for using depressed center flexible abrasive discs with angle spindle.

(These attachments not included in price of grinder)

### SERIES 1EG $\frac{3}{4}$ H.P.

Equipped with the Mall die cast motor with 3450 rpm constant speed—cuts labor costs on most every type of auto body and metal working jobs such as sanding, buffing, polishing, grinding, wire brushing and drilling. Also ideal for wire brushing rims for tubeless tire installation. Smooth power transmission through the flexible shaft gives the operator exceptional handling ease coupled with abundant power.

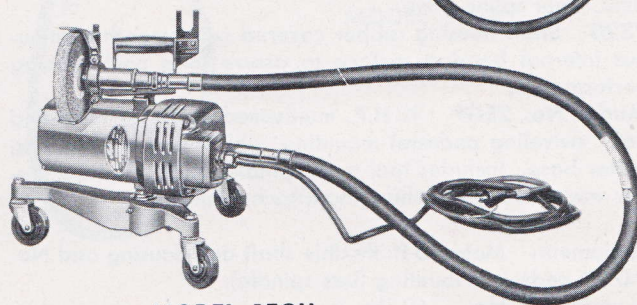
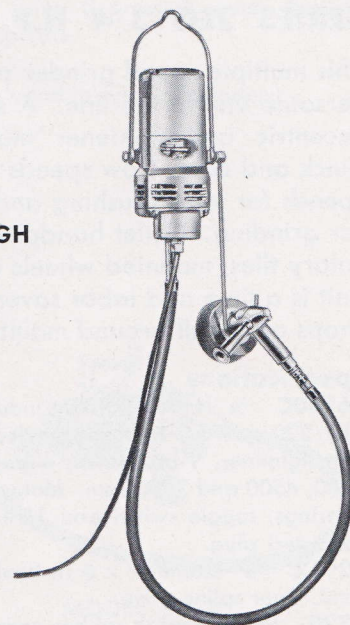
### Specifications

**34560 MOTOR:**  $\frac{3}{4}$  H.P. repulsion-induction, ventilated direct drive. Standard model 110 volt single phase 60 cycle AC. 3450 rpm. Also available 220 volt. Die cast motor shell, sealed ball bearings need no lubrication. Standard manually operated toggle switch. Heavy duty 15 ft. rubber covered three wire cord, plug and ground.

**32952 FLEXIBLE SHAFT:**  $\frac{7}{16}$ " diameter 6 ft. long of high carbon steel wire. 4 spline drive.

**7320 SHAFT HOUSING:** Rubber covered with smooth continuous internal bearing surface for the shaft which reduces friction and heat to the minimum. Shaft and housing constructed to handle 100% momentary overloads.

MODEL 1EGH

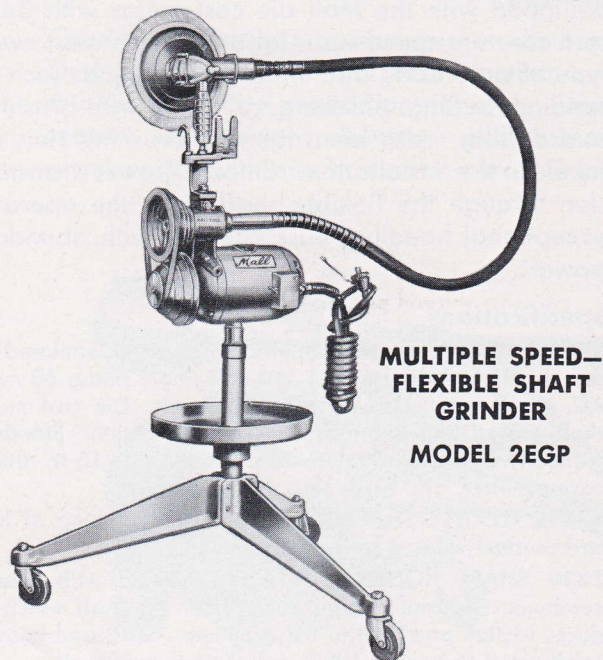


MODEL 1EGU



## FLEXIBLE SHAFT MACHINES

FOR GRINDING, SANDING ETC., UP TO 7400 R.P.M.



**MULTIPLE SPEED—  
FLEXIBLE SHAFT  
GRINDER  
MODEL 2EGP**

### SERIES 2EG 3/4 H.P.

This multiple speed grinder and sander is the most versatile unit in the line. A speed for every need. Eccentric belt tightener makes speed changing quick and easy. Low speeds for polishing, medium speeds for wire brushing and sanding, high speed for grinding. Collet handpiece available for using rotary files, mounted wheels or abrasive rolls. This unit is a time and labor saver in die shops, pattern shops or for all around maintenance work.

#### Specifications

**16160C** 3/4 H.P. repulsion induction type single phase 110/220 volt AC ball bearing countershaft with eccentric belt tightener, V-belt drive, 4 step pulleys — speeds 1650, 2700, 4500 and 7400 rpm. Motor has sealed precision ball bearings, toggle switch and 15 ft. rubber covered 3 wire cord and plug.

**32952** 5/16" diameter x 6 ft. flexible shaft of high carbon steel. Four spline drive.

**7320** Shaft housing rubber covered with smooth continuous internal bearing surface to assure long cool running performance.

**Model No. 2EGP** 3/4 H.P. multispeed pedestal mounting 360° swiveling pedestal mounting, with tripod easy rolling caster base. Includes tool tray, spindle holder and stationary wrench for quick changing attachments.

Equipment: Motor, 6 ft. flexible shaft and housing and No. 9470D pedestal mounting (less spindle).  
Shipping weight: 160 lbs.

**Model No. 2EGH** Suspension mounting motor, flexible shaft and housing same as on pedestal model, but mounted on No. 17370 hanger bail. Ideal mounting for assembly line work.

Equipment: Motor, 6 ft. flexible shaft and housing and No. 17370 hanger bail mounting (less spindle).

Shipping weight: 60 lbs.

**Model No. 2EGR** 3/4 H.P. round base bench mounting. Motor swivels full 360° on round plate base for mounting on bench or table.

Equipment: Motor, 6 ft. flexible shaft and housing, countershaft drive and bench mounting (less spindle).

Shipping weight: 130 lbs.

#### ATTACHMENTS:

**6310B** straight spindle: Precision ball bearing spindle for edge type grinding, wire brushing, etc. Uses wheels with 3/4" arbor hole.

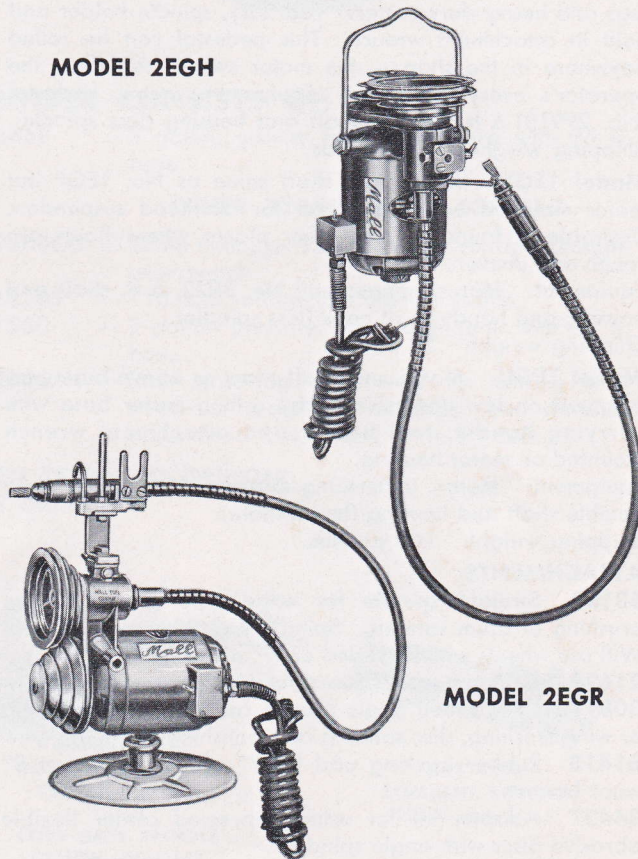
**2403B** collet spindle: Furnished with 1/4" spring collet for using 1/4" shank mounted grinding wheels, rotary files or burrs and abrasive rolls. Precision made for true running operation.

**30811B** Full speed angle spindle or No. 30812B half speed angle spindle for sanding and polishing operations.

**6141B** Rubber backing pad for sanding discs — 7" diameter 1/2" holes. 8" wool bonnet slips over rubber backing pad for polishing.

(These attachments not included in price of grinder.)

### MODEL 2EGH



**MODEL 2EGR**

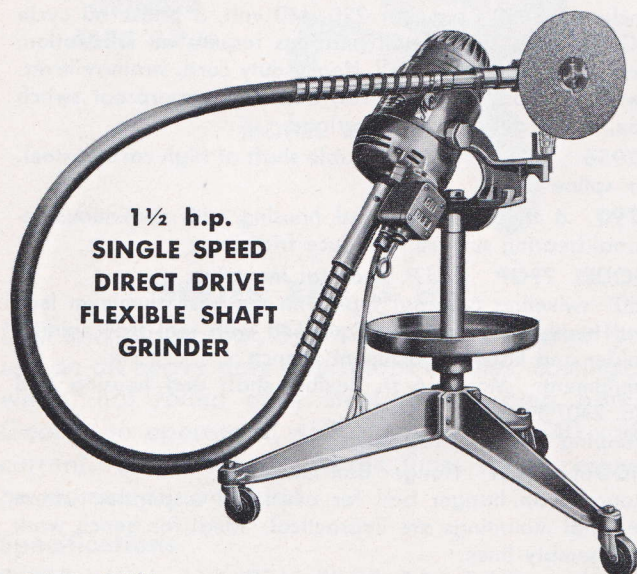


**FLEXIBLE SHAFT MACHINES**

FOR HEAVY DUTY GRINDING, SANDING ETC.

**SERIES 5FG 1½ H.P.**

For heavy duty sanding, wire brushing, cup wheel grinding or sanding—such as grinding castings in foundries; heavy duty grinding or sanding operations on welds; buffing and finishing stainless steel. These rugged machines will stand up under continuous duty. Excellent for use where dusty conditions prevail, as motor is dustproof and vaporproof and switch is fully enclosed.

**MODEL 5FGP**

**Model 5FGP:** Pedestal mounting—can be rolled directly to the work. Motor swivels 360° with a slight pull on the flexible shaft. Tool tray, spindle holders and built-in attachment wrench.

Equipment: Motor, pedestal (No. 2188) 6 ft. flexible shaft and housing (less spindle).

Shipping weight: 170 lbs.

**Model 5FGH:** Motor and shaft same as on 5FGP but motor is mounted in hanger bail (No. 3922) for overhead suspension. Ideally suited for foundries or other installations where floors are rough and uneven. Handy hook for hanging shaft and spindle when not in use.

Shipping weight: 60 lbs.

**Model 5FGU:** Motor and shaft same as on 5FGP but motor is mounted on rolling underslug carriage (No. 3927). This mounting ideally suited for working low, near the floor. Has handy carrying handle and attachment wrench.

Shipping weight: 130 lbs.

**Specifications**

**9000 Motor** 1½ H.P. induction type, totally enclosed dust and vaporproof die cast shell. Direct drive, 3450 rpm. For 220/440 volt, three phase, 60 cycle A.C. Sealed ball bearings require no lubrication. Dust and vaporproof push-pull type switch. Heavy duty 1 ft. rubber covered 4 conductor cord and strain reliever.

**32956** Flexible shaft ½" diameter 6 ft. long made of finest high carbon steel wire. Six spline drive.

**4860** Rubber covered shaft housing has smooth continuous internal bearing surface for the shaft-reducing friction and heat to the minimum.

**ATTACHMENTS:**

**23500** Heavy duty straight spindle for edge type wheel grinding or wire brushing. Use wheel guard No. 11584 for use with 8" grinding wheel.

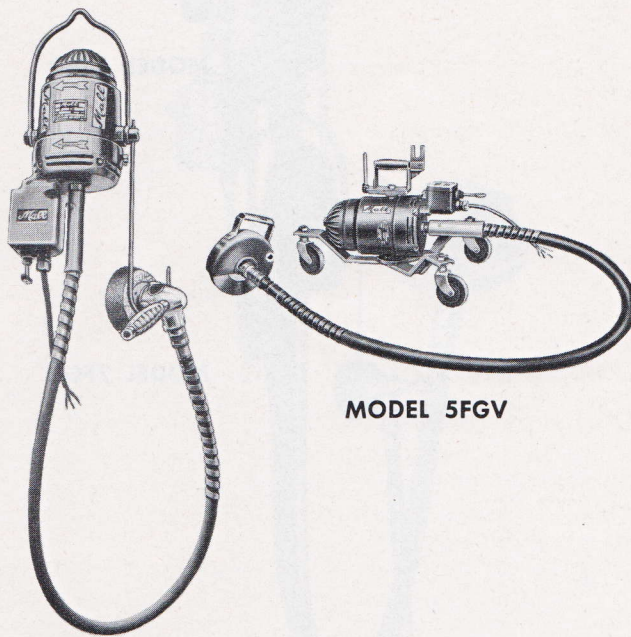
**14940C** Straight spindle with sealed ball bearings for use under extremely dusty conditions.

**31161C** Angle spindle for all sanding, cup wheel grinding, cup wire brushing operations. Cup wheels attach directly to spindle.

**1192B** Backing pad for using 9" sanding discs. Pad has ¾" hole for use with angle spindle.

**34427** Adapter kit for using depressed center flexible abrasive discs with angle spindle.

(These attachments not included in price of grinder.)

**MODEL 5FGH**

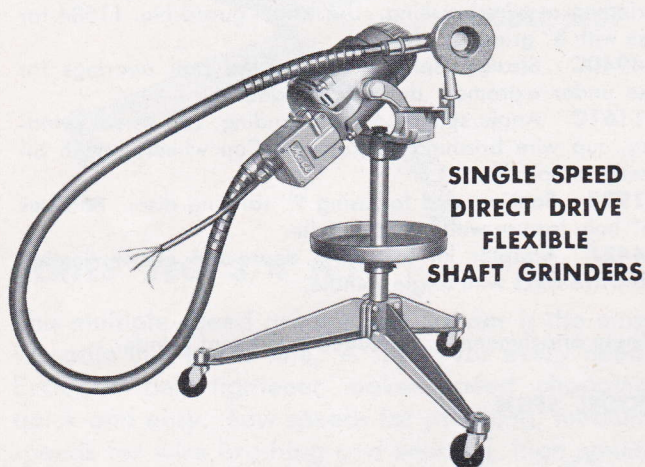


## FLEXIBLE SHAFT MACHINES

FOR EXTRA HEAVY DUTY GRINDING & SANDING ETC.

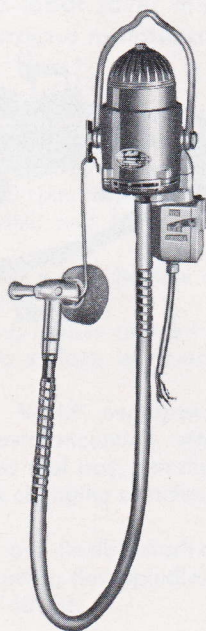
### SERIES 7FG 3 H.P.

Totally enclosed dust and vaporproof motors. Dust, dirt, filings, abrasive or vapor cannot enter to cause motor damage or burn-outs. Powerful fan keeps constant flow of air moving around motor to keep it cool. Motors are capable of delivering 100% additional power on momentary overloads. One power unit will finish all grinding, sanding, wire brushing, buffing and polishing jobs quickly and easily.

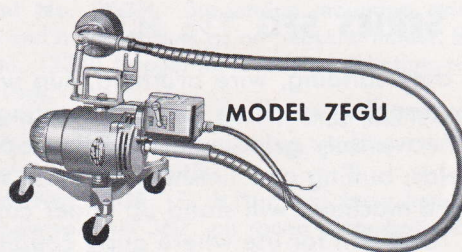


**SINGLE SPEED  
DIRECT DRIVE  
FLEXIBLE  
SHAFT GRINDERS**

**MODEL 7FGP**



**MODEL 7FGH**



**MODEL 7FGU**

### Specifications

**9400 Motor** 3 H.P. constant speed, induction type totally enclosed, 3450 r.p.m. for 220/440 volt, 3 phase 60 cycle AC. Precision sealed ball bearings require no lubrication. Cast aluminum motor shell. Heavy duty cord, strain reliever. Switch — manual reset lever, dust and vaporproof switch box, heavy duty thermal overload.

**32956** 1/2" x 6 ft. long flexible shaft of high carbon steel. Six spline drive.

**4790** 6 ft. rubber covered housing with continuous internal bearing surface to reduce friction.

**MODEL 7FGP** 3 H.P. Pedestal Mounting.

360° swiveling pedestal type with die cast aluminum legs and heavy duty casters. Equipped with tool tray spindle holder and handy attachment wrench.

Equipment: Motor, 6 ft. flexible shaft and housing and No. 2407 Pedestal Mounting.

Shipping weight: 180 lbs.

**MODEL 7FGH** Hanger bail mounting.

Mounted on hanger bail for overhead suspension where pedestal mountings are impractical. Ideal for bench work or assembly lines.

Equipment: Motor, 6 ft. flexible shaft and housing and No. 9327A hanger bail mounting.

Shipping weight: 60 lbs.

**MODEL 7FGU** Underslung mounting.

Mounted on low underslung base for movement over uneven floor areas, where higher pedestal mountings are at a disadvantage. Handy carrying handle, spindle holder and handy wrench mounted on motor housing.

Equipment: Motor, 6 ft. shaft and housing — Underslung base No. 9332.

Shipping weight: 120 lbs.

### ATTACHMENTS:

**23500** Straight spindle to use edge type grinding wheels, wire brushes or sanding drums. Spindle has .800" x 12 thread — will use wheels with 3/4" arbor hole.

**14940C** Straight spindle with sealed ball bearings for use under extremely dusty conditions.

**11584** 8" wheel guard should be used with grinding wheels.

**31161C** Full speed or 31162C half speed angle spindle for cup wheel grinding or wire brushing, disc sanding or polishing.

**1192** Sanding backing pad for 9" abrasives.

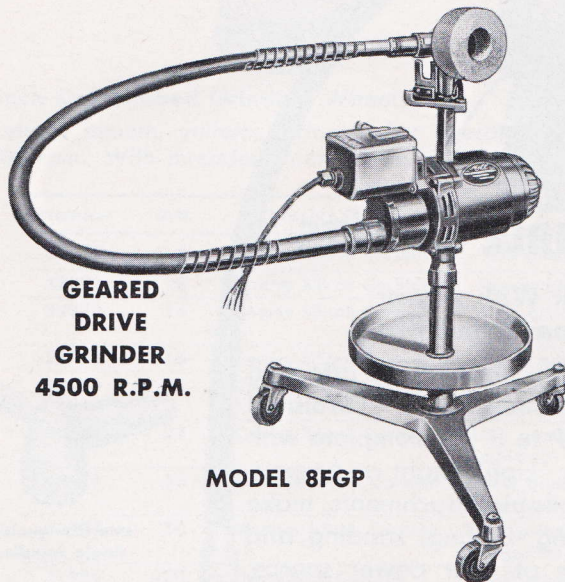
**34427** Adapter kit for using depressed center flexible abrasive discs with angle spindle.

(These attachments not included in price of grinder)



## FLEXIBLE SHAFT MACHINES

GEARED TO 4500 R.P.M. FOR HEAVY DUTY GRINDING & SANDING ETC.



### SERIES 8FG 3 H.P.

Dust and vaporproof, 3 H.P. geared drive motor for use on all heavy duty operations on dies, castings, welds, hot rolled alloy steel and forging bars. Geared to operate at 4500 rpm on 220/440 volt current. Delivers nearly three times rated power on momentary overload.

#### Specifications

**9400A** Motor — 3 H.P. induction type totally enclosed dust and vaporproof shell. Geared to provide 4500 r.p.m. For 220/440 volt, 3 phase, 60 cycle, AC. Sealed ball bearings require no lubrication. Dust and vaporproof push-pull lever type switch. Heavy duty one foot rubber covered 4 conductor cord with strain reliever. Has thermal overload switch for motor protection.

**32956** Flexible shaft  $\frac{1}{2}$ " diameter x 6 ft. long of high carbon steel wire. Six spline drive.

**4860** Housing 6 ft. long. Rubber covered with smooth continuous internal bearing surface for the shaft which reduces friction and heat to the minimum.

#### ATTACHMENTS:

**23500** Straight spindle to use edge type grinding wheels, wire brushes or sanding drums. Spindle has  $.800$ " x 12 thread — will use wheels with  $\frac{3}{4}$ " arbor hole.

**14940C** Straight spindle with sealed ball bearings for use under extremely dusty conditions.

**11584** 8" wheel guard should be used with grinding wheels.

**31161C** Full speed or 31162C half speed angle spindle for cup wheel grinding or wire brushing, disc sanding or polishing.

**1192** Sanding backing pad for 9" abrasives.

**34427** Adapter kit for using depressed center flexible abrasive discs with angle spindle.

(These attachments not included in price of grinder)

#### MODEL 8FGP Pedestal Mounting.

Full 360° swiveling pedestal base with easy rolling casters for easy maneuverability anywhere in the shop. Has heavy duty casters, tool tray, spindle holder and attachment wrench.

Equipment: Motor, 6 ft. flexible shaft and housing on No. 3932A pedestal mounting (less spindle).

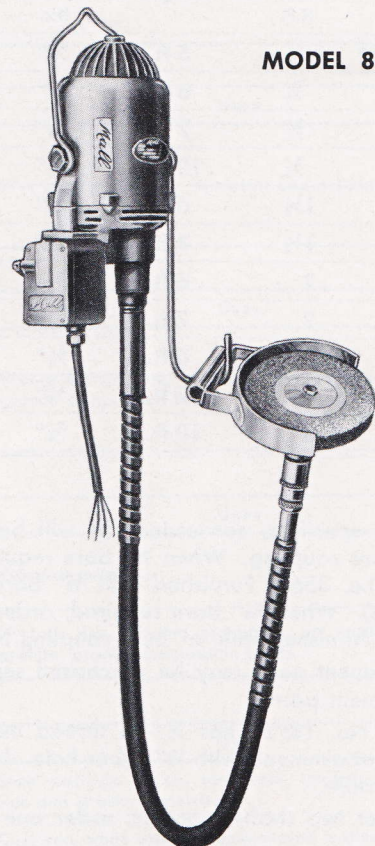
Shipping weight: 180 lbs.

#### MODEL 8FGH Suspension Mounting.

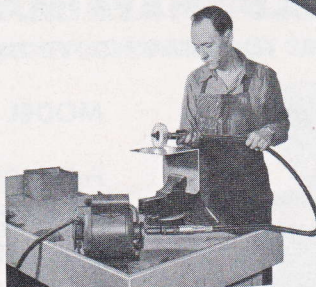
Mounted in hanger bail for overhead suspension, where pedestal mountings are impractical. Use for bench work or on assembly lines where space is at a minimum.

Equipment: Motor, 6 ft. flexible shaft and housing. Mounted in No. 9327A hanger bail mounting.

Shipping weight: 60 lbs.







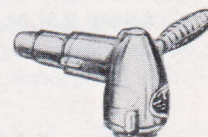
## ATTACHABLE FLEXIBLE SHAFTS

Put Idle Power To Work With Power  
Source Flexible Shaft Conversion Kits

Complete Flexible Shaft Conversion Kits, ready to be attached to your own engine or motor: gasoline-electric-air. Furnished in sizes to fit power units from 1/4 HP to 3 HP, complete with straight spindle and motor coupling. Lightweight and versatile, these units, with a variety of available attachments, make easy work of grinding, wire brushing, buffing, sanding and polishing operations. For freer use of your power source, select from the chart below, the most suitable kit to fill your needs.



Direct Drive  
Motor Runs  
Counterclockwise



Interchangeable  
Angle Spindles

Complete Conversion Kits*					Component Parts**			
Kit No.	Max. H.P.	Length	Flex. Shaft Dia.	Bore of Coupling	Flex. Shaft No.	Housing No.	Spindle No.	Motor Coupling No.
18920***	1/2	5 ft.	3/8"	1/2"		18920B	18920A	
356	3/4	6 ft.	7/16"	1/2-5/8 or 3/4"	32952	7320	6310B	9090
357	3/4	7 ft.	7/16"	1/2-5/8 or 3/4"	32952A	7320A	6310B	9090
3512	3/4	12 ft.	7/16"	1/2-5/8 or 3/4"	32952B	7320B	6310B	9090
46	1 1/2	6 ft.	1/2"	1/2-5/8 or 3/4"	32953	3856	6310B	9090
47	1 1/2	7 ft.	1/2"	1/2-5/8 or 3/4"	32953A	3856A	6310B	9090
46H	2	6 ft.	1/2"	1/2-5/8 or 3/4"	32956	4860	23500	9090
47H	2	7 ft.	1/2"	1/2-5/8 or 3/4"	32956D	4860A	23500	9090
56	3	6 ft.	5/8"	5/8-3/4"	32957	4790	14940C	9820
57	3	7 ft.	5/8"	5/8-3/4"	32957A	4790A	14940C	9820
510	3	10 ft.	5/8"	5/8-3/4"	32957B	4790B	14940C	9820

\*Unless specified, conversion kits will be supplied with 1/2" bore coupling. When 5/8" bore required, order "A" unit. (i.e. 356A: Furnished with 5/8" bore coupling No. 9090A). When 3/4" bore required, order "B" unit. (i.e. 356B: Furnished with 3/4" bore coupling No. 9090B).

\*\*Component parts may be purchased separately as replacement parts.

\*\*\*Shaft No. 18920 has 1/2"-24 thread male spindle for using attachments with 1/2" arbor hole. Handpiece NOT removable.

To connect two shafts together, order one connector No.

17330 (or No. 38820 for 56, 57 and 510 kits).

Two set screws in coupling secure flexible shaft firmly to motor shaft. Flexible shafts have right hand thread requiring direct drive power source running counterclockwise (See illustration).

Mall Angle Spindles fit interchangeably with straight spindles listed. Order angle spindles for disc sanding, cup wire brushing, cup grinding, or drilling with your flexible shaft. Angle spindle No. 30811B interchanges with No. 6310B and No. 23500 straight spindles. Angle spindle No. 31161C interchanges with No. 14940C straight spindle.



# GRINDING ATTACHMENTS FOR FLEXIBLE SHAFT MACHINES



## 6-inch Cup Shaped Grinding Wheel

Produces smooth, uniform surfaces. For operation up to 3500 rpm. With threaded insert. (Nos. 22970-85)



## 6-inch Cup Shaped Grinding Wheel

For smooth, uniform finishes. For operation up to 3500 r.p.m. Lead insert with 3/4" arbor hole. (No. 22995)

Number	Grit	Abrasive Material	Uses
22970	8	Coarse Silicon Carbide	Wet grinding—concrete, brick, cement block and granite.
22971	8	Coarse Silicon Carbide	Dry grinding—concrete, brick, cement block and granite.
22972	16	Coarse Silicon Carbide	Wet grinding—concrete, brick, cement block, granite, limestone, sandstone. Dry grinding—cast iron, bronze, unannealed malleable iron and white iron.
22973	16	Coarse Silicon Carbide	Dry grinding—concrete, brick, granite, cement block, sandstone, limestone.
22974	24	Coarse Silicon Carbide	Wet grinding—concrete, brick, cement block, granite, terrazzo, art marble, limestone, sandstone. Dry grinding—cast iron, bronze, unannealed malleable iron and white iron.
22975	24	Coarse Silicon Carbide	Dry grinding—concrete, brick, cement block, granite, limestone, sandstone. Wet or dry grinding—granite composition block, terrazzo, art marble.
22976	36	Medium Silicon Carbide	Wet grinding—concrete, brick, cement block, granite, terrazzo, art marble. Dry grinding—cast iron, bronze, unannealed malleable iron, white iron.
22977	36	Medium Silicon Carbide	Dry grinding—concrete, brick, cement block, limestone, sandstone. Wet or dry grinding—granite, granite composition block, marble, terrazzo, vitreous ware.
22984	220	Fine Silicon Carbide	Wet grinding—terrazzo (special).
22985	280	Fine Silicon Carbide	Wet grinding—terrazzo, colored tile (special).
22995	16	Coarse Aluminum Oxide	Steel castings, welds, annealed malleable iron, structural members.



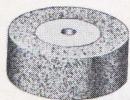
## Cove Base Grinding Wheel

6-inch by 2 1/2-inch. With steel threaded insert. 1-inch radius. (Nos. 22881-22885)



## Cove Base Grinding Wheel

6-inch by 2 1/2-inch. With steel threaded insert. 1 1/2-inch radius. (Nos. 22891-22895)



## Straight Cup Grinding Wheel

6-inch by 2-inch. Threaded insert. (Nos. 22911-22915)



## Straight Face or Edge Type Grinding Wheel

4 1/2-inch by 2-inch. Threaded insert. (Nos. 4268B-4268G)



## Straight Face or Edge Type Grinding Wheel

6-inch by 1-inch. Threaded insert. (Nos. 2173B-2173E)

Number	Grit	Abrasive Material	Uses
22881	24	Coarse Silicon Carbide	Wet or dry grinding—terrazzo and art marble.
22883	60	Medium Silicon Carbide	
22884	80	Fine Silicon Carbide	
22885	120	Fine Silicon Carbide	

Number	Grit	Abrasive Material	Uses
22891	24	Coarse Silicon Carbide	Wet or dry grinding—terrazzo and art marble.
22892	36	Medium Silicon Carbide	
22893	60	Medium Silicon Carbide	
22894	80	Fine Silicon Carbide	
22895	120	Fine Silicon Carbide	

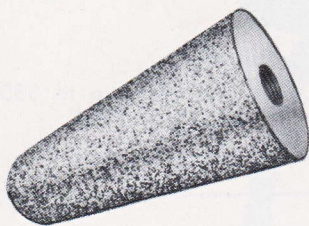
Number	Grit	Abrasive Material	Uses
22911	24	Coarse Silicon Carbide	Wet or dry grinding—terrazzo, art marble, granite and granite composition block.
22912	36	Medium Silicon Carbide	
22914	80	Fine Silicon Carbide	
22915	120	Fine Silicon Carbide	

Number	Grit	Abrasive Material	Uses
4268B	20	Coarse Aluminum Oxide	General purpose.
4268C	36	Medium Aluminum Oxide	
4268D	80	Fine Aluminum Oxide	
4268E	24	Coarse Silicon Carbide	Wet or dry grinding—terrazzo, art marble, marble, granite, granite composition block.
4268F	60	Medium Silicon Carbide	
4268G	120	Fine Silicon Carbide	

Number	Grit	Abrasive Material	Uses
2173B	16	Coarse Aluminum Oxide	Steel castings, welds, semi-steel, annealed malleable iron and structural members.
2173C	30	Medium Aluminum Oxide	
2173D	16	Coarse Silicon Carbide	Cast iron, white iron and unannealed malleable iron.
2173E	30	Medium Silicon Carbide	

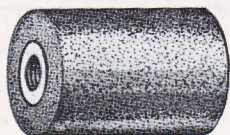


## GRINDING ATTACHMENTS FOR FLEXIBLE SHAFT MACHINES



### Cone Type Grinding Wheel

3-inch x 5-inch Right hand  $\frac{1}{2}$ " x 13 threads to fit current models Mall straight spindles. Left hand threads to fit old style Mall left hand operating shafts. Nos. 22940-58.



### Cove Base Grinding Wheel

For operation at 3500 rpm. 3-inch by 4-inch. With steel threaded insert. Nos. 22921-24. With  $\frac{3}{4}$ -inch dia. lead insert. Nos. 22932-39.

### Right Hand Threads

Number	Grit	Abrasive Material	Uses
22940	8	Coarse Silicon Carbide	Wet or dry rough grinding—terrazzo, art marble, granite, granite composition block, concrete, cement block.
22942	24	Coarse Silicon Carbide	
22943	36	Medium Silicon Carbide	Wet or dry semi-finish grinding—terrazzo, art marble, granite, concrete, cement block and granite composition block.
22945	80	Fine Silicon Carbide	Wet or dry finish grinding—terrazzo, art marble, granite, granite composition block, concrete, cement block.
22946	120	Fine Silicon Carbide	
22948	20	Coarse Silicon Carbide	Dry grinding—cast iron castings.

### Left Hand Threads

Number	Grit	Abrasive Material	Uses
22950	8	Coarse Silicon Carbide	Wet or dry rough grinding—terrazzo, art marble, granite, granite composition block, concrete, cement block.
22951	16	Coarse Silicon Carbide	
22952	24	Coarse Silicon Carbide	Wet or dry semi-finish grinding—terrazzo, art marble, granite, granite composition block, concrete, cement block.
22953	36	Medium Silicon Carbide	
22954	54	Medium Silicon Carbide	Wet or dry finish grinding—terrazzo, art marble, granite, granite composition block, concrete, cement block.
22955	80	Fine Silicon Carbide	
22956	120	Fine Silicon Carbide	Dry grinding—steel castings, annealed malleable iron and structural members.
22957	20	Coarse Aluminum Oxide	
22958	20	Coarse Silicon Carbide	Dry grinding—cast iron castings.

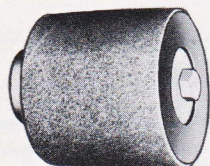
Number	Grit	Abrasive Material	Uses
22921	36	Medium Silicon Carbide	Wet or dry grinding of terrazzo.
22923	80	Fine Silicon Carbide	
22924	120	Fine Silicon Carbide	

Number	Grit	Abrasive Material	Uses
22932	60	Medium Silicon Carbide	Wet or dry grinding of terrazzo.
22933	80	Fine Silicon Carbide	
22934	120	Fine Silicon Carbide	
22938	220	Fine Silicon Carbide	Wet grinding of terrazzo.
22939	280	Fine Silicon Carbide	Wet grinding—terrazzo, colored tile.

All grinding wheels with threaded inserts, unless otherwise specified are: .800" x 12 NS-2 Non-Std. thread. Will fit on plain .750" dia. arbors.

## SANDING ATTACHMENTS FOR FLEXIBLE SHAFT MACHINES

For feather edging on flat or curved surfaces. For automotive and tire shop use as well as for industrial and maintenance.



Rubber center sanding drums for sanding rubber, metal plastic, wood, etc. Long wearing aluminum oxide sleeves in two sizes. Arbor threaded .800 x 12 thread to fit Mall straight spindles.

No. 9819—2-inch by 3-inch Sanding Drum  
No. 13510—3-inch by 3-inch Sanding Drum



### Rubber Center Abrasive Drum

Rubber center abrasive drum, 6" long tapered from  $1\frac{1}{16}$ " dia. to  $1\frac{7}{32}$ " dia. Enables operator to reach spots inaccessible to other drum or disc type sanders. Abrasive cones replace quickly and easily. Thread .800 x 12.

### ABRASIVE BANDS

Number	Size	Abrasive Material	Grit
27165	3 x 3	Aluminum Oxide	16
27166	3 x 3	Aluminum Oxide	24
27167	3 x 3	Aluminum Oxide	36
27168	3 x 3	Aluminum Oxide	50
27169	3 x 3	Aluminum Oxide	80
Number	Size	Abrasive Material	Grit
27186	2 x 3	Aluminum Oxide	24
27187	2 x 3	Aluminum Oxide	36
27188	2 x 3	Aluminum Oxide	50
27189	2 x 3	Aluminum Oxide	80
Number	Shape	Abrasive Material	Grit
27156	Taper	Aluminum Oxide	24
27157	Taper	Aluminum Oxide	36
27158	Taper	Aluminum Oxide	50
27159	Taper	Aluminum Oxide	80

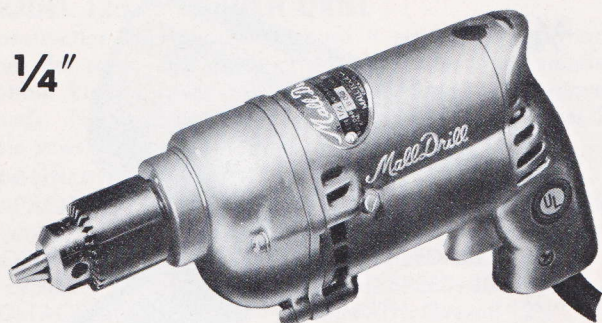


*Mall*

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## HEAVY DUTY ELECTRIC DRILLS

1/4"



### MODELS 145T and 145TS — 1/4-INCH DRILLS

Precision design thru-out, made for heavy duty work in metal, plastic or wood. Locking trigger switch, brush cap for easy inspection and cleaning, lifetime sealed ball bearings and extra torque make these drills favorites with machinists and maintenance men. UL approved.

#### Specifications

CAPACITY: 1/4" steel, 1/2" wood.	CHUCK: Geared key type.
MOTOR: AC-DC 25 to 60 cycle.	FREE SPEED: 2500 rpm (145T) & 800 rpm (145TS).
VOLTAGE: 115 volts; 230 available.	LOAD SPEED: 1500 rpm (145T) & 450 rpm (145TS).
AMPERE RATING: 2.5 amps.	LENGTH: Overall 7".
BEARINGS: Precision ball.	NET WEIGHT: 4 lbs.
EQUIPMENT: Chuck and key, 10 ft. cord, plug and ground.	SHIPPING WEIGHT: 5 lbs.

1/4"



### MODELS 144A and 144B — 1/4-INCH DRILLS

Lightweight, extended contour handle drills for maintenance or production line duty. Precision bearings and gears give rugged performance under heavy service. Choice of speeds to suit the job: 144A at 1650 rpm, or 144B at 3000 rpm. UL approved.

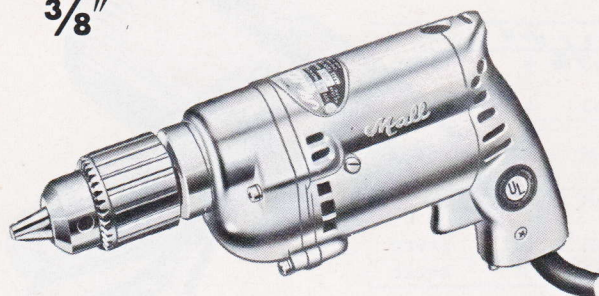
#### Specifications

CAPACITY: 1/4" steel, 1/2" wood.	FREE SPEEDS: 1650 rpm (144A) & 3000 rpm (144B).
MOTOR: AC-DC 25 to 60 cycle.	LOAD SPEEDS: 990 rpm (144A) & 1800 rpm (144B).
VOLTAGE: 115 volts; 230 available.	LENGTH: Overall 7".
AMPERE RATING: 2.9 amps.	NET WEIGHT: 4 lbs.
BEARINGS: Precision ball.	SHIPPING WEIGHT: 5 lbs.
CHUCK: Geared key type.	
EQUIPMENT: Chuck and key, 10 ft. cord, plug and ground.	



## HEAVY DUTY ELECTRIC DRILLS

3/8"



### MODEL 381 — 3/8-INCH DRILL

Palm size compact design makes this a fine kit drill for repairmen, maintenance crews and busy shop workers. Mid-range (800 rpm) speed plus precision-cut gears and ball bearings add dependability and years of service life. Locking trigger switch. Used extensively with hole saws. UL approved.

#### Specifications

CAPACITY: 3/8" steel, 3/4" wood.	BEARINGS: Precision ball.
MOTOR: AC-DC 25 to 60 cycle.	CHUCK: Geared key type.
VOLTAGE: 115 volts; 230 available.	FREE SPEED: 800 rpm.
AMPERE RATING: 2.9.	LOAD SPEED: 450 rpm.
EQUIPMENT: Chuck and key, 10 ft. cord, plug and ground.	LENGTH: Overall 9 3/4".
	NET WEIGHT: 5 lbs.
	SHIPPING WEIGHT: 6 lbs.

3/8"



### MODEL 380 — 3/8-INCH DRILL

Extended contour handle, locking trigger switch and precision bearings in a lightweight industrial use drill. Mid-range speed (800 rpm) gives extra torque needed for service and maintenance work. UL approved.

#### Specifications

CAPACITY: 3/8" steel, 3/4" wood.	BEARINGS: Precision ball.
MOTOR: AC-DC 25 to 60 cycle.	CHUCK: Geared key type.
VOLTAGE: 115 volts; 230 available.	FREE SPEED: 800 rpm.
AMPERE RATING: 2.9.	LOAD SPEED: 450 rpm.
EQUIPMENT: Chuck and key, 10 ft. cord, plug and ground.	LENGTH: Overall 7".
	NET WEIGHT: 5 lbs.
	SHIPPING WEIGHT: 6 lbs.

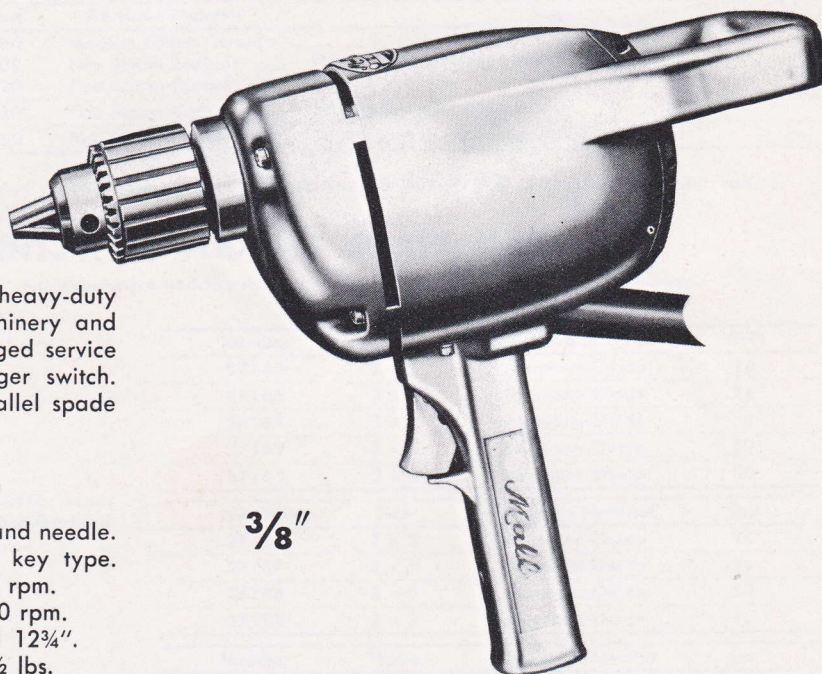
### MODEL 384 — 3/8-INCH DRILL

Husky, high-torque two-handle drill built for heavy-duty drilling. Strength and stamina for heavy machinery and vehicle maintenance. For maintenance and rugged service jobs. Extended base handle with locking trigger switch. Close-coupled construction with convenient parallel spade handle. UL approved.

#### Specifications

CAPACITY: 3/8" steel, 3/4" wood.	BEARINGS: Ball and needle.
MOTOR: AC-DC 25 to 60 cycle.	CHUCK: Geared key type.
VOLTAGE: 115 volts; 230 available.	FREE SPEED: 750 rpm.
AMPERE RATING: 5 amps.	LOAD SPEED: 450 rpm.
EQUIPMENT: Chuck and key, 10 ft. cord, plug and ground.	LENGTH: Overall 12 3/4".
	NET WEIGHT: 8 1/2 lbs.
	SHIPPING WEIGHT: 12 lbs.

3/8"





## HEAVY DUTY ELECTRIC DRILLS

### MODEL 125 — 1/2-INCH DRILL

Construction-site favorite because it stands the gaff and does the work. Big spade-grip rear handle and extended bottom handle gives work comfort — even with gloved hands. Tough strain-reliever cord for durability. Drives 2" hole saws with power to spare. UL approved.

#### Specifications

CAPACITY: 1/2" steel, 1" wood.

MOTOR: AC-DC 25 to 60 cycle.

VOLTAGE: 115 volts; 230 available.

AMPERE RATING: 5 amps.

EQUIPMENT: Chuck and key, auxiliary handle, 10 ft. cord, plug and ground.

BEARINGS: Ball and needle.

CHUCK: Geared key type.

FREE SPEED: 500 rpm.

LOAD SPEED: 300 rpm.

LENGTH: Overall 12 3/4".

NET WEIGHT: 8 1/2 lbs.

SHIPPING WEIGHT: 12 lbs.

### MODELS 586 and 586A — 5/8-INCH DRILLS

Triple gear-reduction gives hefty torque to do heavy maintenance and construction jobs. Choice of geared chuck — (586) or No. 2 Morse taper model (586A). Three handles give excellent grip in any working area. Top handle removable for tight-space jobs; cord has husky strain-reliever for long service life.

#### Specifications

CAPACITY: 5/8" steel, 1 1/4" wood.

MOTOR: AC-DC 25 to 60 cycle.

VOLTAGE: 115 volts; 230 available.

AMPERE RATING: 12 amps.

BEARINGS: Precision ball.

CHUCK: Geared key type on model 586.

EQUIPMENT: Model 586: Geared chuck and key, auxiliary top handle, 10 ft. cord, plug and ground. Model 586A: No. 2 Morse taper, auxiliary top handle, 10 ft. cord, plug and ground.

SPINDLE: Model 586A furnished with No. 2 Morse taper.

FREE SPEED: 300 rpm.

LOAD SPEED: 180 rpm.

LENGTH: Overall 17".

NET WEIGHT: 18 lbs.

SHIPPING WEIGHT: 25 lbs.

### MODELS 346 and 346A — 3/4-INCH DRILLS

Triple-reduction gears for firm, powerful torque, rear spade handle and removable top handle for convenience, and durable strain-reliever cord are quality features of these rugged construction-and-maintenance drills. Choice of geared chuck (346) or No. 2 Morse taper (346A) models.

#### Specifications

CAPACITY: 3/4" steel, 1 1/2" wood.

MOTOR: AC-DC 25 to 60 cycles.

VOLTAGE: 115 volts; 230 available.

AMPERE RATING: 12 amps.

BEARINGS: Precision ball.

CHUCK: Geared key type on Model 346.

EQUIPMENT: Model 346: Geared chuck and key, auxiliary top handle, 10 ft. cord, plug and ground. Model 346A: No. 2 Morse taper, auxiliary top handle, 10 ft. cord, plug and ground.

SPINDLE: No. 2 Morse taper on Model 346A.

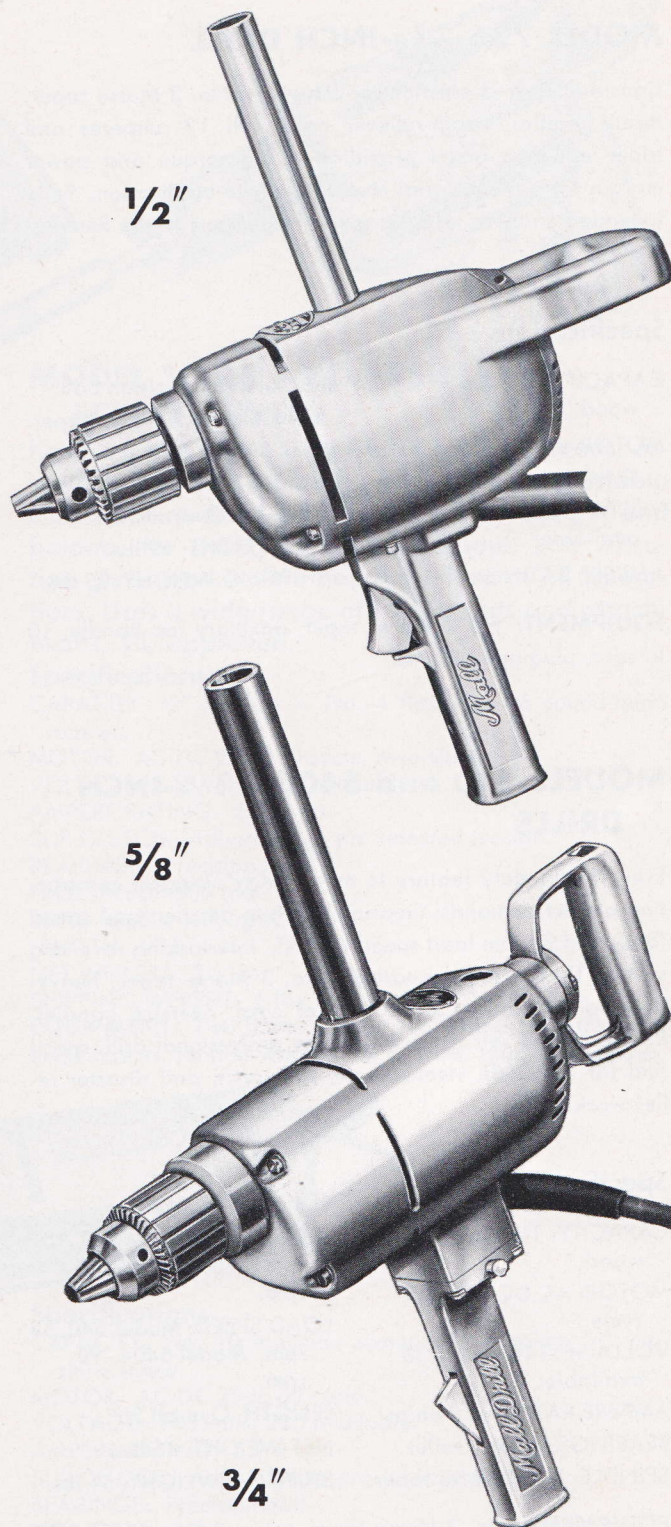
FREE SPEED: 250 rpm.

LOAD SPEED: 150 rpm.

LENGTH: Overall 17".

NET WEIGHT: 18 3/4 lbs.

SHIPPING WEIGHT: 24 3/4 lbs.





## HEAVY DUTY ELECTRIC DRILLS

### MODEL 786 — 7/8-INCH DRILL

Construction and erection model with a No. 3 Morse taper, three handles, strain-reliever cord, full 12 amperes and triple-reduction gears providing a big torque and power margin for any industrial or maintenance application. Fully extended oversize handles give fine support in the heaviest drilling.

#### Specifications

CAPACITY: 7/8" steel, 1 3/4" wood.

MOTOR: AC-DC 25 to 60 cycle.

VOLTAGE: 115 volts; 230 available.

AMPERE RATING: 12 amps.

BEARINGS: Precision ball.

SPINDLE: No. 3 Morse taper.

FREE SPEED: 200 rpm.

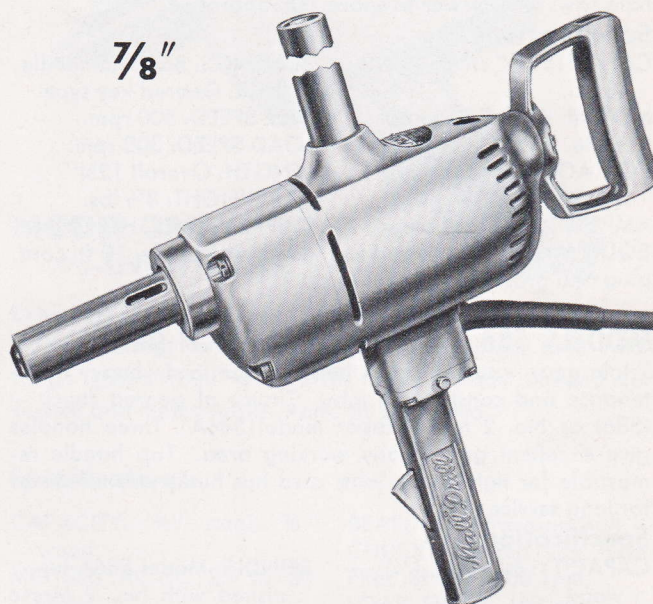
LOAD SPEED: 120 rpm.

LENGTH: Overall 18".

NET WEIGHT: 19 lbs.

SHIPPING WEIGHT: 25 lbs.

**EQUIPMENT:** No. 3 Morse taper, auxiliary top handle, 10 ft. cord, plug and ground.



### MODELS 540 and 540A — 1 1/4-INCH DRILLS

Every heavy-duty feature to meet today's biggest construction project demands: Gearing-down to 54 rpm load speed (540) and 90 rpm load speed (540A). Interlocking reversing switch, Timken roller bearings, No. 3 Morse taper, heavy-duty spindle, husky strain-reliever cord, oversize handles. Runs nuts and sets lag screws. The professional drill, specified for railroads, steelworkers, shipyards, and disaster relief work.

#### Specifications

CAPACITY: 1 1/4" steel, 2 1/2" wood.

MOTOR: AC-DC 25 to 60 cycle.

VOLTAGE: 115 volts; 230 available.

AMPERE RATING: 18 amps.

BEARINGS: Timken roller.

SPINDLE: No. 3 Morse taper.

FREE SPEED: Model 540, 90 rpm. Model 540A, 150 rpm.

LOAD SPEED: Model 540, 54 rpm. Model 540A, 90 rpm.

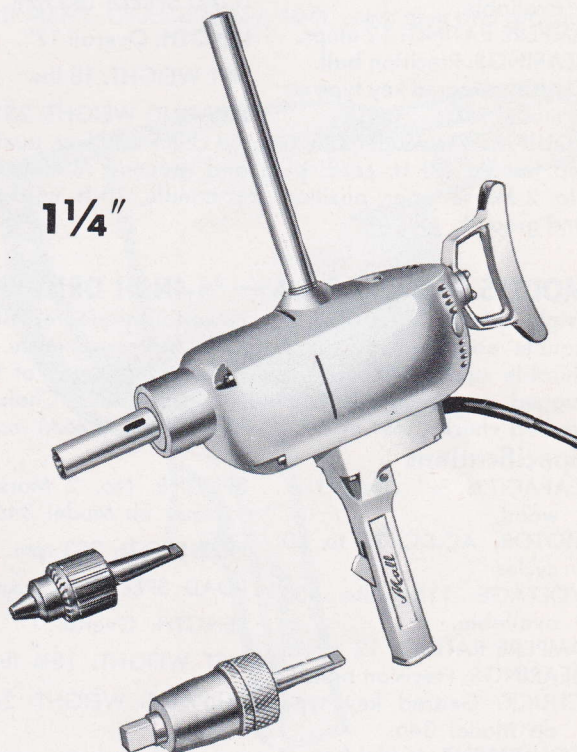
LENGTH: Overall 25".

NET WEIGHT: 45 lbs.

SHIPPING WEIGHT: 51 lbs.

**EQUIPMENT:** No. 3 Morse taper, top auxiliary handle, 10 ft. cord, plug and ground.

**EXTRA EQUIPMENT AVAILABLE:** No. 23690 Slip Clutch; No. 23892 5/8" capacity geared chuck and key.

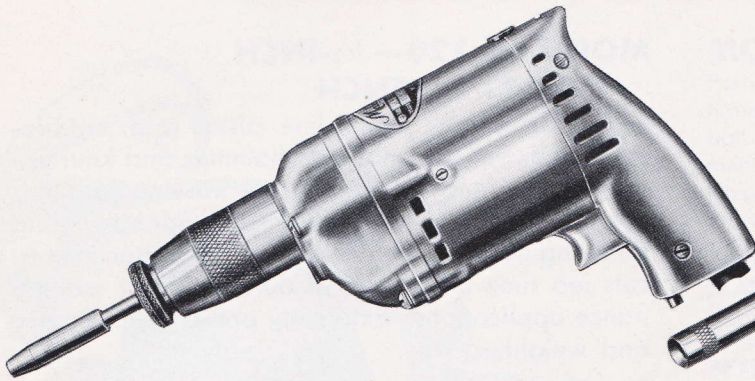




*Mall*

*Remington*

## ELECTRIC PRODUCTION SCREWDRIVERS



### MODEL 143S — NON-REVERSIBLE SCREWDRIVER

Adjustable slip-clutch, special cooling fan, smooth die-cast housing and fine working balance in a rugged, constant-service screwdriver made to cut costs, save time and labor. Takes full line of finders, bits and other attachments to speed assembly operations. UL approved.

#### Specifications

CAPACITY: 1/4" hex bit — No. 4 flat, No. 16 round-head screws.

MOTOR: AC-DC 25 to 60 cycle, non-reversible.

VOLTAGE: 115 volts; 230 available.

AMPERE RATING: 2.2 amps.

SLIP CLUTCH: Adjustable to preselected tension.

BEARINGS: Precision ball.

FREE SPEED: 800 rpm.

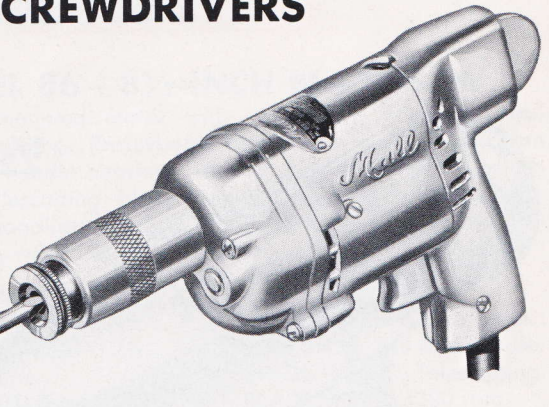
LOAD SPEED: 480 rpm.

LENGTH: Overall, 9 1/4".

NET WEIGHT: 3 1/2 lbs.

SHIPPING WEIGHT: 6 lbs.

**EQUIPMENT:** Two finder bits for No. 8 and No. 10 round-head screws, tension wrench, 10 ft. cord, plug and ground.



### MODEL 143SR — REVERSIBLE SCREWDRIVER

Rear toggle switch reverses rotation, speeds assembly and dis-assembly operations. Adjustable clutch for pre-set tension, precision design and balance for steady production output. Low vibration gives worker fine handling ease in all operations. Uses a wide range of finders, bits and attachments. UL approved.

#### Specifications

CAPACITY: 1/4" hex bit — No. 4 flat, No. 16 round-head screws.

MOTOR: AC-DC 25 to 60 cycle, reversible.

VOLTAGE: 115 volts; 230 available.

AMPERE RATING: 2.2 amps.

SLIP CLUTCH: Adjustable to pre-selected tension.

BEARINGS: Precision ball.

FREE SPEED: 800 rpm.

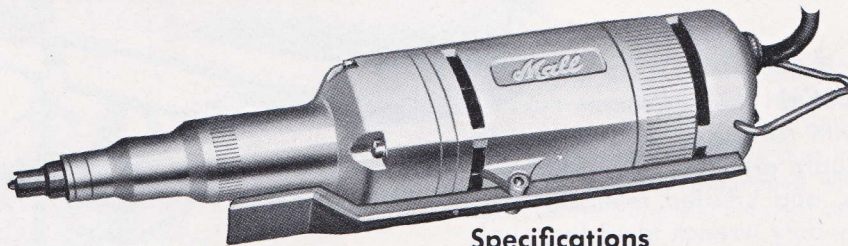
LOAD SPEED: 480 rpm.

LENGTH: 10 1/4".

NET WEIGHT: 3 1/2 lbs.

SHIPPING WEIGHT: 6 lbs.

**EQUIPMENT:** Two finder bits for No. 8 and No. 10 round-head screws, tension wrench, 10 ft. cord, plug and ground.



### MODEL ES10 — REVERSIBLE SCREWDRIVER

Paddle safety switch gives instant stop-start control. Reverses with quarter-turn of knurled ring. Pencil-point design gives best working comfort in production runs; wire bail at rear lets operator hang tool on overhead hook or suspension reel. The most compact and dependable tool, made for heavy-duty service.

#### Specifications

CAPACITY: No. 10 machine screw, self tapping; 1/4" machine screw.

MOTOR: AC-DC 25 to 60 cycle.

VOLTAGE: 115 volts; 230 available.

AMPERE RATING: 2.2 amps.

SLIP CLUTCH: Adjustable to pre-selected tension.

BEARINGS: Precision ball.

FREE SPEED: 1200 rpm.

LOAD SPEED: 720 rpm.

LENGTH: Overall 12 3/8".

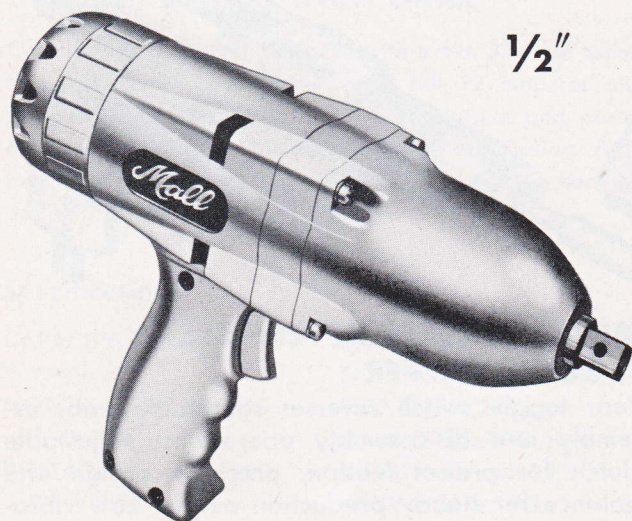
NET WEIGHT: 4 1/2 lbs.

SHIPPING WEIGHT: 5 1/2 lbs.

**EQUIPMENT:** Bit and finder, 10 ft. cord, plug and ground.



## ELECTRIC IMPACT WRENCHES



1/2"

### MODEL W-120 — 1/2-INCH IMPACT WRENCH

Reversible motor, center-line pistol grip, square-drive end, bearing mounted hammer and knurled-ring reversing switch at rear of housing give this general purpose tool daily dependability and handling ease. Drives a wide range of attachments, cuts job time and effort in automotive or maintenance applications. Extremely powerful for its size and weight.

#### Specifications

CAPACITY: 1/2" nuts and 1/2" bolts.

MOTOR: AC-DC 25 to 60 cycle.

VOLTAGE: 115 volts; 230 available.

AMPERE RATING: 2.8 amps.

SPINDLE: 1/2" square.

EQUIPMENT: 10-ft. cord, plug and ground.

BEARINGS: Precision ball, needle and self-lubricating.

FREE SPEED: 1900 rpm.

LOAD SPEED: 1400 rpm.

LENGTH: Overall 11".

NET WEIGHT: 7 1/4 lbs.

SHIPPING WEIGHT: 9 lbs.

### MODEL W-780 — 7/8-INCH IMPACT WRENCH

Two-handle model with reversible motor, bearing mounted hammer, square drive end, precision ball and needle bearings, and knurled reversing ring make this extra-heavy-duty wrench ideal for tough industrial, automotive, maintenance or repair applications. Extra torque, power, and work-load capacity for driving attachments.

#### Specifications

CAPACITY: 7/8" nuts and 7/8" bolts

MOTOR: AC-DC 25 to 60 cycle.

VOLTAGE: 115 volts; 230 available.

AMPERE RATING: 16 amps.

EQUIPMENT: 10 ft. cord, plug and ground.

BEARINGS: Extra heavy-duty precision ball and needle.

FREE SPEED: 1800 rpm.

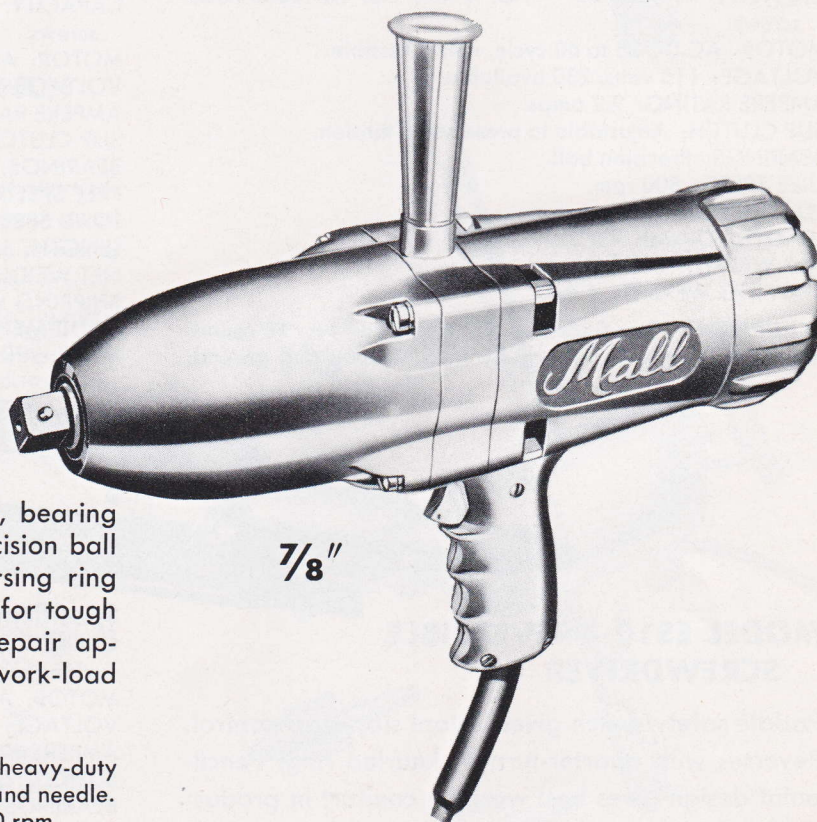
LOAD SPEED: 1080 rpm.

SPINDLE: 3/4" square.

LENGTH: Overall 14 1/2".

NET WEIGHT: 16 3/4 lbs.

SHIPPING WEIGHT: 18 lbs.



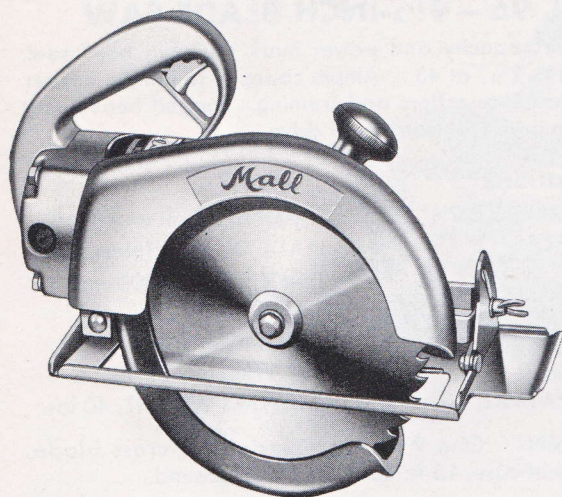
7/8"



# Mall

# Remington

## HEAVY DUTY ELECTRIC SAWS



### MODEL 86 — 8½-INCH BLADE SAW

Parallel-mounted motor with worm-gear drive for two-handed cutting. Professional carpenter's tool with precision ball and needle bearings, sawdust blower, wing-nut adjustment, telescoping blade guard, and full-powered light-weight handling ease to speed thru construction and remodeling work. UL approved.

#### Specifications

BLADE DIAMETER: 8½"

DEPTH CAPACITY: 2⅞"

maximum.

BEVEL CUT: 0 to 2⅝" at 45°

MOTOR: AC-DC 25 to 60

cycle.

VOLTAGE: 115 volts; 230

available.

AMPERE RATING: 15 amps.

BEARINGS: Ball and needle.

BLADE GUARD: Telescoping.

BLADE SPEED: 4200 rpm

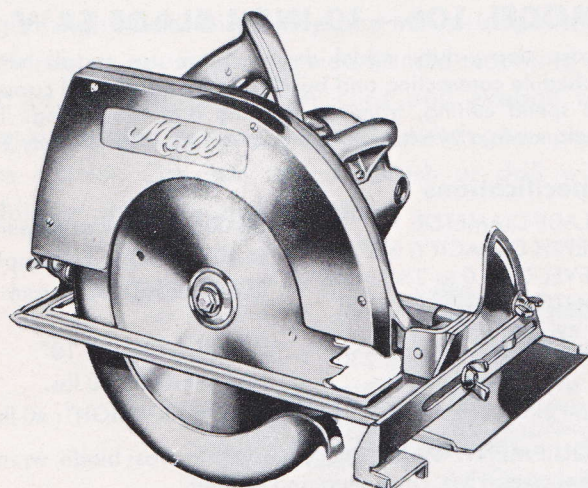
free.

LENGTH: Overall 15⅝"

NET WEIGHT: 18 lbs.

SHIPPING WEIGHT: 35 lbs.

**EQUIPMENT:** One 8½" combination rip-cross blade, wrench, steel case, 15 ft. cord, plug and ground.



### MODEL 92 — 9½-INCH BLADE SAW

Production and pre-fabricating saw with 5,000 rpm blade, sawdust blower, and compact design for fine working balance in all kinds of cuts. Rip guide fence with wing-nut adjustment, satin finish aluminum, precision workmanship thru-out. Right-angle mounted motor.

#### Specifications

BLADE DIAMETER: 9½"

DEPTH CAPACITY: 3¼"

BEVEL CUT: 0 to 2½" at 45°

MOTOR: AC-DC 25 to 60

cycle.

VOLTAGE: 115 volts; 230

available.

AMPERE RATING: 11 amps.

BEARINGS: Ball and needle.

BLADE GUARD: Telescoping.

BLADE SPEED: 5000 rpm

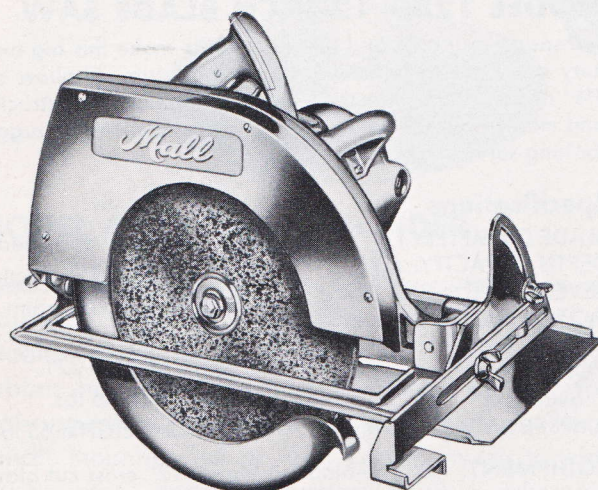
free.

LENGTH: Overall 16½"

NET WEIGHT: 24¾ lbs.

SHIPPING WEIGHT: 43½ lbs.

**EQUIPMENT:** One 9½" combination rip-cross blade, wrench, file and handle, steel case, 15 ft. cord, plug and ground.



### MODEL 192 — 9-INCH ABRASIVE SAW

Abrasive wheel model with right-angle motor mount, air exhaust ports specially located. Will not blow on the cutting line, will not blow abrasive dust into the air to hamper or endanger operator. Equipped with renewable dust-filter; excellent for stone and concrete cutting.

#### Specifications

WHEEL DIAMETER: 9"

BLADE DIAMETER: 9½"

DEPTH CAPACITY: 3¼"

BEVEL CUT: 0 to 2½" at 45°

MOTOR: AC-DC 25 to 60

cycle.

VOLTAGE: 115 volts, 230

available.

AMPERE RATING: 11 amps.

BEARINGS: Ball and needle.

BLADE GUARD: Telescoping.

BLADE SPEED: 5000 rpm

free.

LENGTH: Overall 16½"

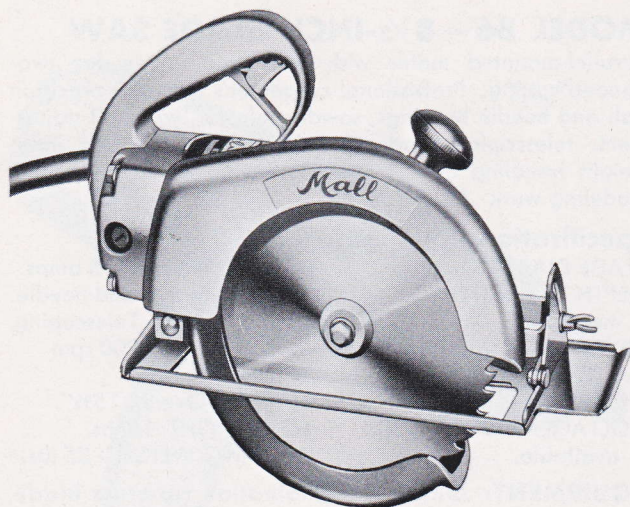
NET WEIGHT: 24¾"

SHIPPING WEIGHT: 43½ lbs.

**EQUIPMENT:** One 9" abrasto-flex wheel, wrench, file and handle, dust filter, steel case, 15 ft. cord, plug and ground. For wet applications, order No. 34080 water cooling attachment.



## HEAVY DUTY ELECTRIC SAWS



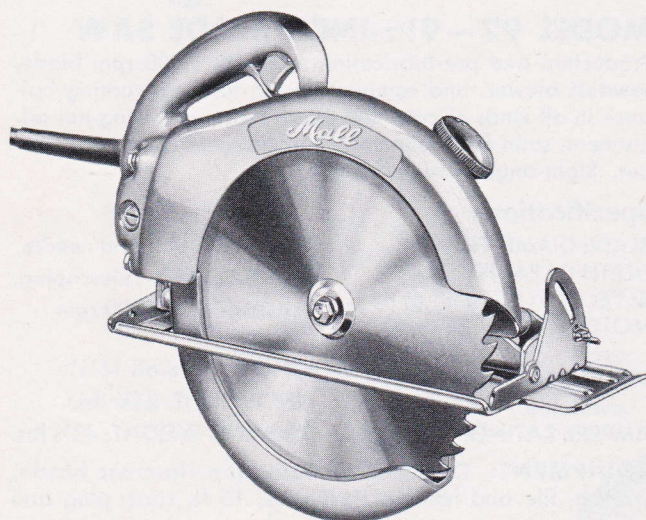
### MODEL 96 — 9 1/2-INCH BLADE SAW

Extra work capacity and power mark this "big boy" saw. Bevel cuts to 2 3/4" at 45°. Ample capacity to handle lumber used in studding, rafters and framing. Rugged heavy-duty motor with precision worm-gear drive.

#### Specifications

BLADE DIAMETER: 9 1/2".	BEARINGS: Ball and needle.
DEPTH CAPACITY: 3 3/8".	BLADE GUARD: Telescoping.
BEVEL CUT: 0 to 2 3/4" at 45°.	BLADE SPEED: 3800 rpm free.
MOTOR: AC-DC 25 to 60 cycle.	LENGTH: Overall 18".
VOLTAGE: 115 volts; 230 available.	NET WEIGHT: 19 lbs.
AMPERE RATING: 15 amps.	SHIPPING WEIGHT: 40 lbs.

**EQUIPMENT:** One 9 1/2" combination rip-cross blade, wrench, steel case, 15 ft. cord, plug and ground.



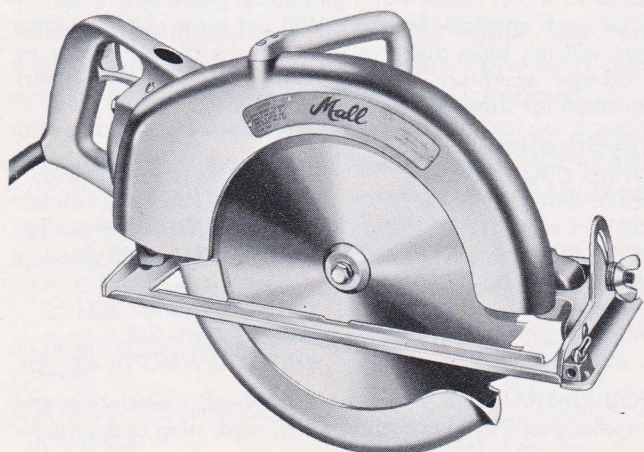
### MODEL 106 — 10-INCH BLADE SAW

Extra heavy-duty model designed for use on all heavy-schedule contracting and building. Full power and capacity to speed cutting, framing, finishing and fabricating. Fine balance in a two-handle compact design. Shallow cuts 2 3/8".

#### Specifications

BLADE DIAMETER: 10".	BEARINGS: Ball and needle.
DEPTH CAPACITY: 3 5/8".	BLADE GUARD: Telescoping.
BEVEL CUT: 0 to 2 7/8" at 45°.	BLADE SPEED: 3500 rpm free.
MOTOR: AC-DC 25 to 60 cycle.	LENGTH: Overall 18".
VOLTAGE: 115 volts; 230 available.	NET WEIGHT: 20 lbs.
AMPERE RATING: 13 amps.	SHIPPING WEIGHT: 40 lbs.

**EQUIPMENT:** One 10" combination rip-cross blade, wrench, steel case, 15 ft. cord, plug and ground.



### MODEL 128 — 12-INCH BLADE SAW

Full spade rear grip and tubular handle make this big extra duty saw easy to handle in the biggest cuts. Shallow cuts 2 3/8" at 90°. Made for the biggest professional construction and maintenance work, with every component extra rugged for long service life.

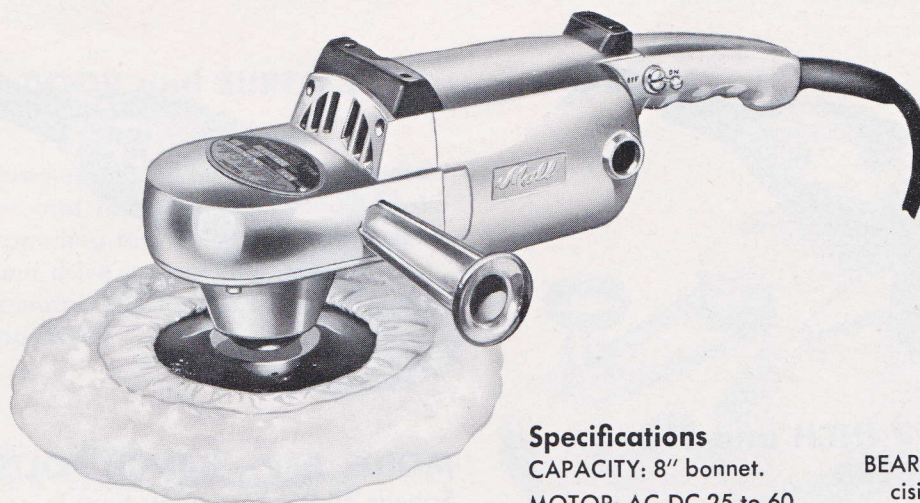
#### Specifications

BLADE DIAMETER: 12".	BEARINGS: Ball and needle.
DEPTH CAPACITY: 4 3/8".	BLADE GUARD: Telescoping.
BEVEL CUT: 0 to 3 3/8" at 45°.	BLADE SPEED: 3200 rpm free.
MOTOR: AC-DC 25 to 60 cycle.	LENGTH: Overall 22".
VOLTAGE: 115 volts; 230 available.	NET WEIGHT: 36 lbs.
AMPERE RATING: 18 amps.	SHIPPING WEIGHT: 65 lbs.

**EQUIPMENT:** 12" combination blade, 12" cross cut blade, wrench, rip fence guide, steel case, 15 ft. cord, plug and ground.



## ELECTRIC POLISHER-SANDERS



### MODEL 47P — 8-INCH POLISHER

Lightweight automotive-shop and industrial polisher with rubber housing pads, side handle mounting at left or right, strain-reliever cord and eyebolt for reel-suspension operation. Toggle switch gives positive control. Converts to wire brush or drill with addition of chuck and adapter.

#### Specifications

CAPACITY: 8" bonnet.

MOTOR: AC-DC 25 to 60 cycle.

VOLTAGE: 115 volts; 230 available.

AMPERE RATING: 6.4.

**EQUIPMENT:** 7" rubber backing pad, 8" sheep's wool bonnet, eyebolt, side handle, wrench, 15 ft. cord, plug and ground.

For use as drill, order No. 29466 1/2" hex key chuck, No. 29495 key, No. 31737 adapter. Cup wire brush No. 31584 screws on spindle.

BEARINGS: Heavy duty precision ball.

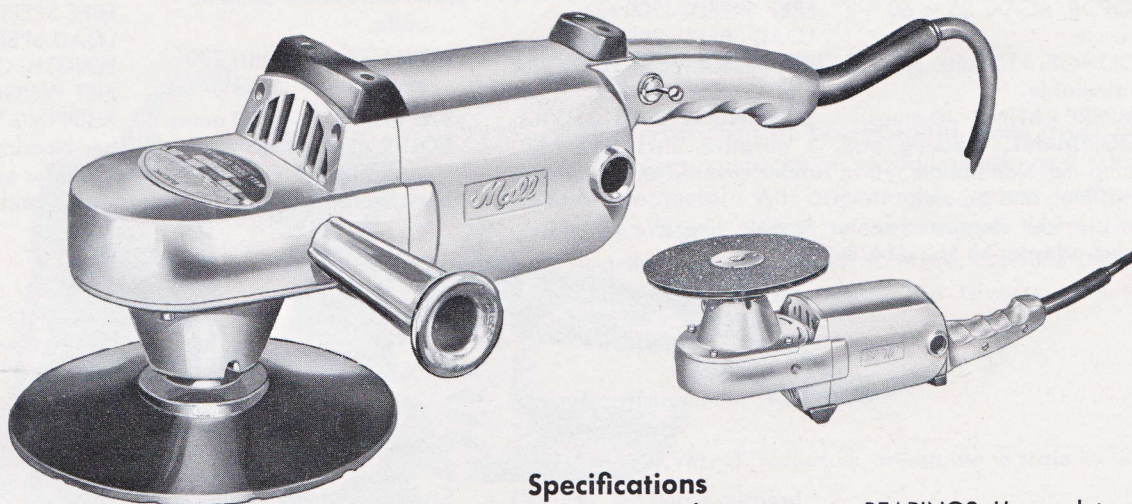
FREE SPEED: 1400 rpm.

LOAD SPEED: 840 rpm.

LENGTH: Overall 17".

NET WEIGHT: 11 lbs.

SHIPPING WEIGHT: 14 lbs.



### MODEL 47S — 7-INCH SANDER

Speeds all rotary sanding jobs in automotive or industrial finishing shops. Step-down design of handles gives fine working ease and balance. Rubber housing pads, toggle switch, eyebolt for reel-suspension, strain-reliever cord and auxiliary handle mounting left or right side. Converts to wire brush, uses depressed-center flexible abrasive wheels with addition of adapter listed at right.

#### Specifications

CAPACITY: 7" discs.

MOTOR: AC-DC 25 to 60 cycle.

VOLTAGE: 115 volts; 230 available.

AMPERE RATING: 6.4 amps.

**EQUIPMENT:** 7" rubber backing pad, five assorted 7" abrasive discs, eyebolt, side handle, wrench, 15 ft. cord, plug and ground.

For use as wire brush, order No. 31584 Cup wire brush. For use with depressed-center flexible abrasive wheels, order adapter kit No. 34428.

BEARINGS: Heavy duty precision ball.

FREE SPEED: 4200 rpm.

LOAD SPEED: 2520 rpm.

LENGTH: Overall 17".

NET WEIGHT: 11 lbs.

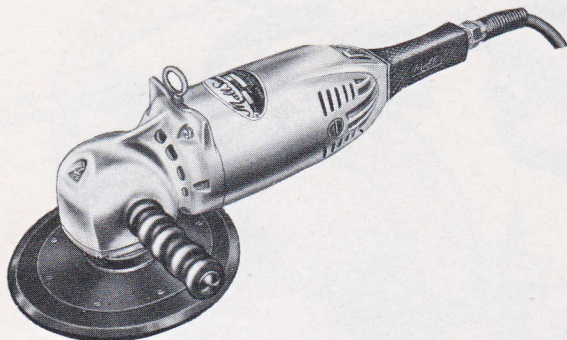
SHIPPING WEIGHT: 14 lbs.



# Remington

# Mall

## HEAVY DUTY ELECTRIC POLISHERS-SANDERS AND GRINDERS



### MODELS 57S — 7-INCH and 59S — 9-INCH SANDERS

Fast change spindle locks, fully enclosed commutators and rubber covered fish-tail end grips give all-day handling ease and dependability for heavy volume auto shops and industrial jobs. Side handles mount left or right; eye bolts for reel suspension. Ideal balance. UL approved.

#### Specifications

CAPACITY: 57S, 7" discs;  
59S, 9" discs.

MOTOR: AC-DC 25 to 60  
cycle.

VOLTAGE: 115 volts; 230  
available.

AMPERE RATING: 10 amps.

**EQUIPMENT:** Backing pad, 3 abrasive discs, eye bolt, clamp nut, side handle, 15 ft. rubber covered strain-reliever cord, plug and ground.

For use with depressed-center flexible abrasive wheels, order adapter kit No. 34428.

BEARINGS: Heavy duty precision ball.

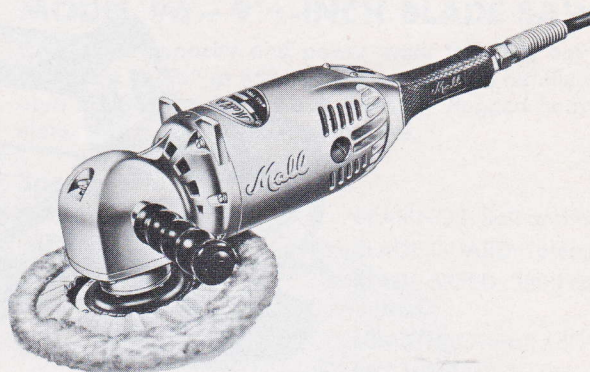
FREE SPEED: 4200 rpm.

LOAD SPEED: 2520 rpm.

LENGTH: Overall 19".

NET WEIGHT: 19 lbs.

SHIPPING WEIGHT: 21½ lbs.



### MODEL 57P — 8-INCH POLISHER

Speeds all finishing operations in production shops. Fast-change spindle lock, fish-tail end grip, side handle mounting left or right, eyebolt for reel suspension give dependability and convenience on jobs where time is money. Choice of professionals and other heavy-schedule users. UL approved.

#### Specifications

CAPACITY: 9" bonnet.

MOTOR: AC-DC 25 to 60  
cycle.

VOLTAGE: 115 volts; 230  
available.

AMPERE RATING: 10 amps.

**EQUIPMENT:** Soft sponge-rubber backing pad, 9" sheep's wool bonnet, 1 can polish, side handle, eyebolt, 15 ft. rubber-covered strain reliever cord, plug and ground.

BEARINGS: Heavy duty precision ball.

FREE SPEED: 1400 rpm.

LOAD SPEED: 840 rpm.

LENGTH: Overall 19".

NET WEIGHT: 19 lbs.

SHIPPING WEIGHT: 21½ lbs.



### MODELS 44GR, 45GR and 46GR GRINDERS

Fine handling ease, hand-supported, or reel-suspended. Choice of three wheel sizes and speeds, all giving smooth power and fast stock removal. Contoured grips, toggle switch, easy-change guard, modern step-down design.

#### Specifications

MOTOR: AC-DC 25 to 60  
cycle.

VOLTAGE: 115 volts; 230  
available.

AMPERE RATING: 6.4 amps.

**EQUIPMENT:** Wrenches, grinding wheel, wheel guard, tool balancer bracket, 15 ft. rubber covered cord, plug and ground.

SWITCH: Toggle.

BEARINGS: Precision ball.

LENGTH: Overall 22½".

NET WEIGHT: 12 lbs. with-  
out wheel.

MODEL	FREE SPEED	WHEEL SIZE	SPINDLE THREAD
44GR	5560 rpm	4"	½"—13NC-3
45GR	4430 rpm	5"	½"—13NC-3
46GR	3730 rpm	6"	¾"—11NC-2



# Mall

# Remington

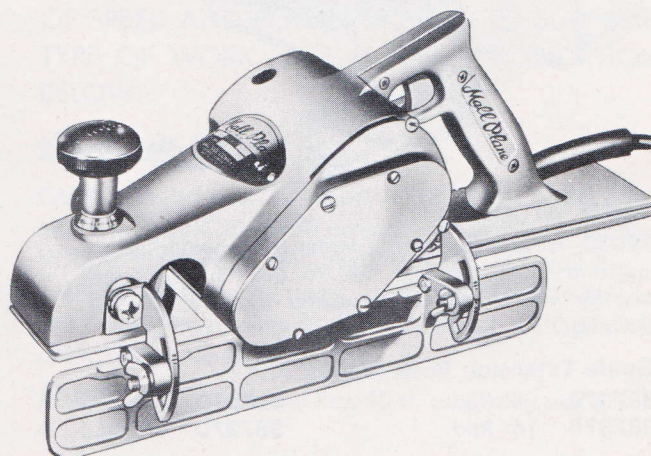
## ELECTRIC DOOR AND SURFACE PLANE

### MODEL 3P — DOOR and SURFACE PLANE

Knob depth-adjustment, bevel fence, trigger switch, two-blade cutter and full grip rear handle make this new work speeding tool easy to operate, easy to maintain. Silent drive transmission, sealed bearings add to dependability. For surface- and door-finishing. UL approved.

#### Specifications

CAPACITY: 3" width,  $\frac{1}{8}$ " depth.  
ADJUSTMENT: 0 to  $\frac{1}{8}$ " by knob, even while cutting.  
MOTOR: AC-DC 25 to 60 cycle.  
VOLTAGE: 115 volts; 230 available.  
AMPERE RATING: 8.4 amps.  
DRIVE: Silent sprocket chain sealed in grease.  
BEVELING SURFACE: Adjustable for door and sash plane.  
Removable for surface planing.  
NET WEIGHT: 15 lbs.  
SHIPPING WEIGHT: 28 lbs.

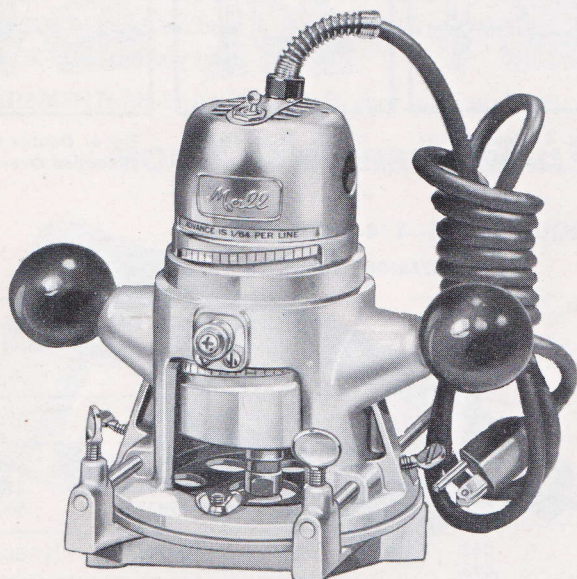


**EQUIPMENT:** Two extra blades, sharpening stone, steel case, 15 ft. cord, plug and ground.

## ELECTRIC ROUTER

### MODEL 52850 — ROUTER

For home craftsman or professional. Cuts grooves, edges, corners, surfaces on wood, plastic and composition material. All adjustments made without wrenches. Toggle switch, strain reliever cord, two ball handles. UL approved. Can be used as plane with addition of attachments. See reverse side of this sheet.



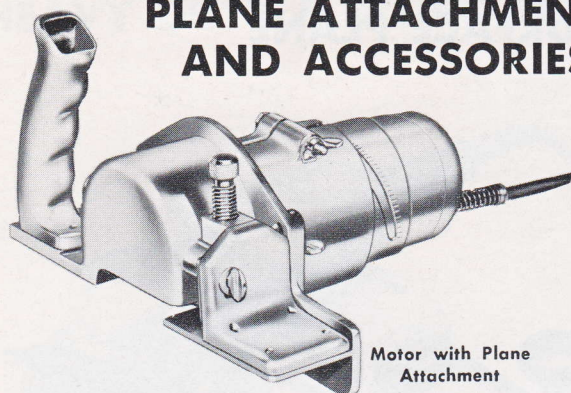
**EQUIPMENT:** Motor, chuck, wrenches, straight guides, pair of 5" guides, wing nuts, router bit, 7 ft. cord, plug and ground.

#### Specifications

VERTICAL TRAVEL: 3" maximum, adjustable to scale by  $\frac{1}{64}$ ".  
CHUCK:  $\frac{1}{4}$ " single purpose.  
CENTER GUIDE:  $1\frac{1}{8}$ " diameter. Gauges  $\frac{1}{16}$ " to a template.  
MOTOR: AC-DC 25 to 60 cycle,  $\frac{3}{4}$  hp.  
VOLTAGE: 115 volts; 230 available.  
SPEED: 18,000 rpm free.  
BEARINGS: Precision ball.  
NET WEIGHT: 5 lbs.  
SHIPPING WEIGHT: 6 lbs.



## PLANE ATTACHMENTS AND ACCESSORIES



Motor with Plane Attachment

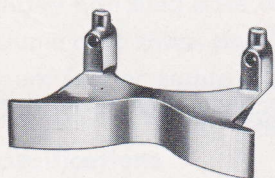
### PLANE ATTACHMENT

**39030**—attaches on router motor for grooving, shaping and edge planing. Use to groove doors and sash for weatherstrip; for grooving plywood paneling, molding.

### Guide Extension Rods (Pairs)

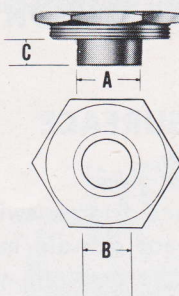
**38737A** 8" Rod  
**38737B** 16" Rod

**38737C** 24" Rod  
**38737D** 36" Rod



### 38743 CIRCULAR GUIDE

To be used with 38740A Base, guide rods and wing nuts in making circular cuts.



### CENTER GUIDES

No.	A	B	C
53236	5/16"	7/32"	7/16"
53237	13/32"	5/16"	7/16"
53238	1/2"	7/16"	7/16"
53239	5/8"	7/16"	3/4"
53240	7/8"	3/4"	7/16"
53241	1"	7/8"	7/16"
53242	1 1/8"	1 1/16"	7/16"



39035A ADAPTER



39036 WASHER



### GROOVE CUTTER

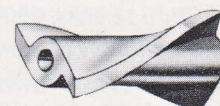
No.	Width In.
39027	1/8



### ROUNDING OVER CUTTER

No.	Dia. "A" In.
34834	1 1/4

51299 Chip Deflector



### STRAIGHT CUTTER

No.	Width In.
39837D	1 13/16

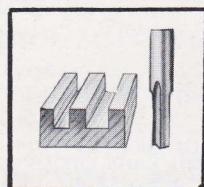


Fig. 1. Single Flute Straight

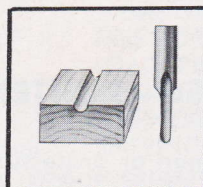


Fig. 2. Single Flute Veining Bit

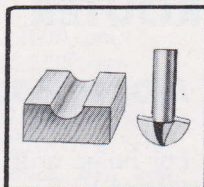


Fig. 3. Double Flute Core Box Bit

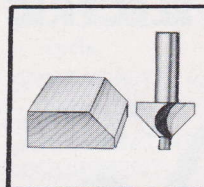


Fig. 4. Double Flute Chamfer Bit

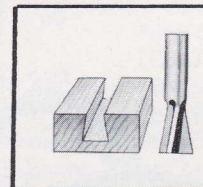


Fig. 5. Triple Flute Dovetail Bit

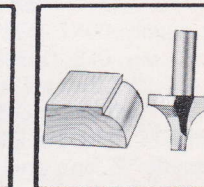


Fig. 6. Double Flute Rounded Over Bit

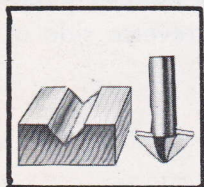


Fig. 7. Double Flute "V" Grooving Bit

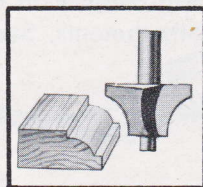


Fig. 8. Double Flute Beading Bit

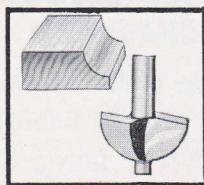


Fig. 9. Double Flute Cove Bit

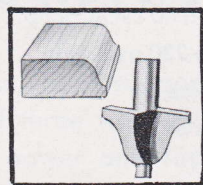


Fig. 10. Roman Ogee Bit Two Flutes

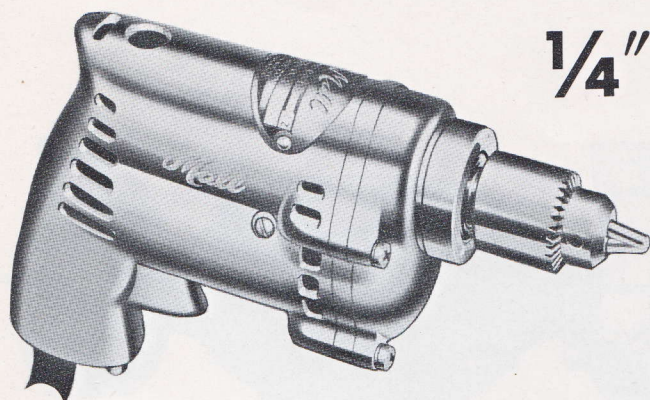
## ROUTER BITS—1/4-INCH SHANKS

### STRAIGHT SHANK BITS

Fig. No.	Catalog No.	Dia.
1	39830	.125
1	39830A	.156
1	39830B	.187
1	39830C	.218
1	39830D	.250
1	39830F	.500
1	39830H	.625
2	39831	.062
2	39831A	.093
2	39831B	.125
2	39831C	.187
3	39832	.187
3	39832A	.250
3	39832B	.375
3	39832C	.500
3	39832E	.750

Fig. No.	Catalog No.	Dia.
4	39833	3/8 at 45°
5	39834	.375
6	39835	.187
6	39835A	.250
6	39835D	.500
7	39836	1/2" at 45°
8	39837	.187R
8	39837A	.250R
8	39837B	.375R
9	39838	.187
9	39838A	.250
10	39839	



*Mall*<sup>®</sup>*Remington***STANDARD ELECTRIC DRILLS****1/4"****MODEL 143T — 1/4-INCH DRILL**

Precision ball-bearings thru-out, brush cap for easy cleaning and inspection, locking trigger switch and quality details of finish and design make this the extra-performance tool for homeshop or workbench. UL approved.

**Specifications**

CAPACITY: 1/4" steel, 1/2" wood. FREE SPEED: 2500 rpm.  
 MOTOR: AC-DC, 25 to 60 cycle. LOAD SPEED: 1500 rpm.  
 VOLTAGE: 115 volt; 230 avail. LENGTH: Overall 7 7/8".  
 AMPERE RATING: 1.8 amps. NET WEIGHT: 4 lbs.  
 BEARINGS: Precision ball. SHIPPING WEIGHT: 5 lbs.  
 CHUCK: Geared key type.

**EQUIPMENT:** Chuck and key, 10 ft. cord, plug and ground.

**MODEL 143TP — 1/4-INCH DRILL  
(MID-SPEED)**

RUGGED 143T DRILL MAY BE HAD IN A CHOICE OF SPEED AND POWER RANGES TO SUIT YOUR TYPE OF WORK. SEE MODEL SPECIFICATIONS BELOW.

**Specifications**

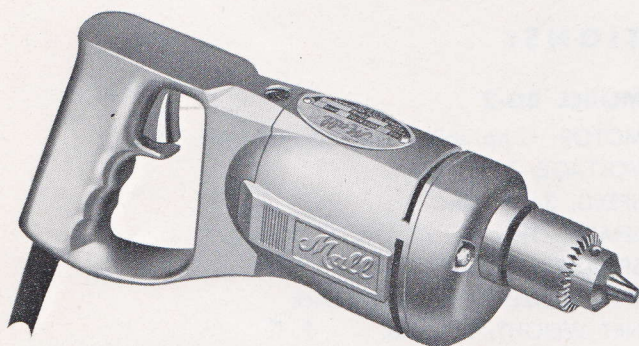
CAPACITY: 1/4" steel, 1/2" wood. FREE SPEED: 1800 rpm.  
 MOTOR: AC-DC, 25 to 60 cycle. LOAD SPEED: 1100 rpm.  
 VOLTAGE: 115 volts; 230 avail. LENGTH: Overall 7 7/8".  
 AMPERE RATING: 2.2 amps. NET WEIGHT: 4 lbs.  
 BEARINGS: Precision ball. SHIPPING WEIGHT: 5 lbs.  
 CHUCK: Geared key type.

**EQUIPMENT:** Chuck and key, 10 ft. cord, plug and ground.

**MODEL 143TS — 1/4-INCH DRILL  
(LOW SPEED)****Specifications**

CAPACITY: 1/4" steel, 1/2" wood. FREE SPEED: 800 rpm.  
 MOTOR: AC-DC, 25 to 60 cycle. LOAD SPEED: 450 rpm.  
 VOLTAGE: 115 volts; 230 avail. LENGTH: Overall 7 7/8".  
 AMPERE RATING: 2.2 amps. NET WEIGHT: 4 lbs.  
 BEARINGS: Precision ball. SHIPPING WEIGHT: 5 lbs.  
 CHUCK: Geared key type.

**EQUIPMENT:** Chuck and key, 10 ft. cord, plug and ground.

**MODEL 146S SERIES DRILLS: 146SB — 146SF — 146SH — 146SK****Specifications**

CAPACITY: 1/4" steel, 1/2" wood. CHUCK: Geared key type.  
 MOTOR: AC-DC, 25 to 60 cycle. LENGTH: Overall 12 1/4".  
 VOLTAGE: 115 volts. NET WEIGHT: 4 lbs.  
 AMPERE RATING: 1.8 amps. SHIPPING WEIGHT: 5 lbs.  
 BEARINGS: Ball and needle.

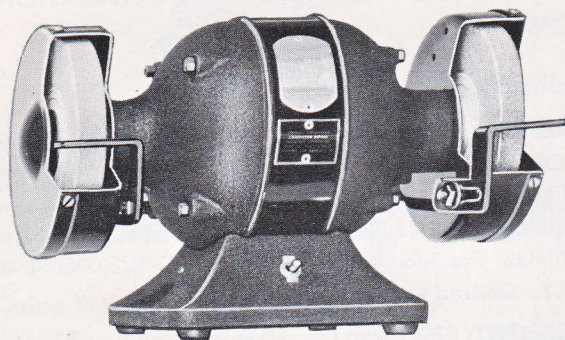
**EQUIPMENT:** Chuck and key, 10 ft. cord, plug and ground.

Saw-grip four-pounder with ball- and needle-bearing construction and the finest workmanship, plus a wide variety of power- and speed-ranges. New design gives light, steady balance and more accurate and faster drilling.

MODEL	VOLTS	FREE SPEED	LOAD SPEED
146SB	115	800 rpm	480 rpm
146SF	115	1750 rpm	1050 rpm
146SH	115	2500 rpm	1500 rpm
146SK	115	3500 rpm	2100 rpm



## HEAVY DUTY ELECTRIC BENCH GRINDERS



**MODEL BG-1**



**MODEL BG-2**

Heavy duty grinders for general purpose grinding and tool sharpening. Power-Plus, split phase, totally enclosed motors, on heavy-duty base, already drilled for bench mounting. Rugged shaft mounted on sealed, long-life, ball bearings. Closed sides, dual wheels,  $\frac{1}{2}$ " spindles, with heavy-duty adjustable tool rests with eye shield holes drilled and tapped. Dynamically balanced for quiet, smooth-running operation. Ideal for home or farm use as well as for automotive service shop or general industrial heavy duty work.

### SPECIFICATIONS:

#### MODEL BG-1

MOTOR:  $\frac{1}{4}$  hp, split phase, 60 cycle, AC.  
VOLTAGE: 115 V  
SPEED: 3450 rpm  
SHAFTS: Two  
SPINDLE SIZE:  $\frac{1}{2}$ "  
WHEEL SIZE: 6" dia. x  $\frac{3}{4}$ " thick  
NET WEIGHT: 38 $\frac{1}{4}$  lbs.  
SHIPPING WEIGHT: 44 $\frac{3}{4}$  lbs.

#### MODEL BG-2

MOTOR:  $\frac{1}{2}$  hp, split phase, 60 cycle, AC.  
VOLTAGE: 115 V  
SPEED: 3450 rpm  
SHAFTS: Two  
SPINDLE SIZE:  $\frac{1}{2}$ "  
WHEEL SIZE: 6" dia. x  $\frac{3}{4}$ " thick  
NET WEIGHT: 54 $\frac{1}{4}$  lbs.  
SHIPPING WEIGHT: 62 $\frac{3}{4}$  lbs.

EQUIPMENT: Both units furnished with one 36-grain, coarse wheel, one 60-grain, fine wheel, heavy duty on-off switch, 10 ft. cord, 3-prong plug and ground.







# HEAVY DUTY ELECTRIC BENCH GRINDERS



MODEL 100



MODEL 150

These heavy-duty electric bench grinders are designed for grinding and sharpening tools and parts. They are built for long life and are capable of handling the most demanding grinding tasks. The Model 100 has a 1/2 HP motor and 10" grinding wheels, while the Model 150 has a 3/4 HP motor and 12" grinding wheels. Both models feature a heavy-duty cast iron base and a safety guard for the grinding wheels.

## SPECIFICATIONS:

- |                 |                 |
|-----------------|-----------------|
| Model 100       | Model 150       |
| Motor           | Motor           |
| 1/2 HP          | 3/4 HP          |
| Grinding wheels | Grinding wheels |
| 10"             | 12"             |
| Base            | Base            |
| Cast iron       | Cast iron       |
| Weight          | Weight          |
| 15 lbs.         | 20 lbs.         |
| Dimensions      | Dimensions      |
| 18" x 12" x 12" | 20" x 14" x 14" |







***Remington***

***Mall<sup>®</sup>***

**MALL TOOL COMPANY, DIVISION OF REMINGTON ARMS COMPANY, INC.**

Form CI 1657

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